Drinking Water Surveillance Program

ST. THOMAS (ELGIN) WATER SUPPLY SYSTEM

Annual Report 1989



ST. THOMAS (ELGIN) WATER SUPPLY SYSTEM

DRINKING WATER SURVEILLANCE PROGRAM

ANNUAL REPORT 1989

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EXECUTIVE SUMMARY

DRINKING WATER SURVEILLANCE PROGRAM

ST. THOMAS (ELGIN) WATER SUPPLY SYSTEM 1989 ANNUAL REPORT

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The St. Thomas (Elgin) Water Treatment Plant is a conventional treatment plant which treats water from Lake Erie. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. This plant has a design capacity of $45.0 \times 1000 \, \text{m}^3/\text{day}$ and serves a population of approximately 54,500.

Water samples from the raw, treated and two distribution sites were taken on a monthly basis. The St. Thomas (Elgin) Water Treatment Plant was sampled for the presence of approximately 180 parameters monthly during 1989. Parameters were divided into the following groups: Bacteriological, Inorganic and Physical (Laboratory Chemistry, Field Chemistry and Metals) and Organic (Chloroaromatics, Chlorophenols, Pesticides and PCB, Phenolics, Polyaromatic Hydrocarbons, Specific Pesticides and Volatiles). Chlorophenols and Specific Pesticides were analyzed in June and November only.

A summary of results is shown in Table A.

Inorganic and Physical parameters were below any applicable health related ODWOs.

Samples were analyzed monthly for the presence of approximately 110 Organics. Levels did not exceed health related guidelines.

During 1989, the DWSP sampling results indicated that the St. Thomas (Elgin) Water Supply System produced good quality water at the plant and this quality was maintained in the distribution system.

TABLE A

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (E

ST THOMAS (ELGIN WSS)

SUMMARY TABLE BY SCAN

SCAN	TESTS	RAW POSITIVE XPOSITIVE	SITIVE	TRI	TREATED TESTS POSITIVE XPOSITIVE	SITIVE	S TESTS	SITE 1 TESTS POSITIVE XPOSITIVE	0S111VE	S TESTS	SITE 2 TESTS POSITIVE XPOSITIVE	POSITIVE
A T T C T C T T A R	*	76	*	*			*	U	F			c
	3	İ	3	3	7	2	3	•	2	î	n	•
CHEMISTRY (FLD)	38	36	90	22	22	100	143	143	100	132	132	100
CHEMISTRY (LAB)	252	210	8	252	182	2	777	357	8	407	326	80
METALS	288	\$	62	592	122	97	564	300	53	517	273	25
CHLOROAROMATICS	154	0	0	168	0	0	168	0	0	154	0	0
CHLOROPHENOLS	12	0	0	12	0	0	٠	•	•	•	•	•
РАН	188	0	0	88	0	0	•	•	•	٠	٠	•
PESTICIDES & PCB	387	0	0	807	0	0	343	0	0	30%	0	0
PHENOL ICS	12	01	83	12	eo	8	•		•	•	•	•
SPECIFIC PESTICIDES	\$	0	0	92	0	0	12	0	0	=	0	0
VOLATILES	348	0	0	348	87	13	290	07	13	290	07	13
	1771	657		1826	437		2000	845		1853	774	

NO KNOWN HEALTH RELATED GUIDELINES WERE EXCEEDED

TOTAL

A POSITIVE VALUE DENOTES THAT THE RESULT IS GREATER THAN THE STATISTICAL LIMIT OF DETECTION AND IS QUANTIFIABLE A "." INDICATES THAT NO SAMPLE WAS TAKEN

DRINKING WATER SURVEILLANCE PROGRAM ST. THOMAS (ELGIN) WATER SUPPLY SYSTEM 1989 ANNUAL REPORT

INTRODUCTION

The Drinking Water Surveillance Program (DWSP) for Ontario is a monitoring program providing immediate, reliable, current information on drinking water quality. The DWSP officially began in April 1986 and is designed to eventually include all municipal supplies in Ontario. In 1989, 65 plants were being monitored.

The DWSP was initiated at the St. Thomas (Elgin) Water Supply System in March 1987. Annual reports were published for 1987 and 1988 (ISSN 0840-5255).

This report contains information and results for 1989.

In order to accommodate the increasing number of plants on the DWSP and to facilitate the timely completion of the 1989 annual reports, plants with two or more years of published data will receive an abbreviated annual report. This report maintains the same general format as in previous years but does not include a comprehensive discussion of results. For more detail on the parameters analyzed and discussion of results, consult the 1987 and 1988 reports.

PLANT DESCRIPTION

The St. Thomas (Elgin) Water Supply System uses a conventional treatment plant which treats water from Lake Erie. The process consists of coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. Powdered activated carbon is added for taste and odour control. This plant has a rated capacity of 45 x 1000 m^3/day and flows for the day of sampling ranging from 23.1 x 1000 m^3/day to 31.8 x 1000 m^3/day . It serves a population of approximately 54,500.

The plant location is shown in Figure 1. Plant process details, in a block schematic, are shown in Figure 2. General plant information is presented in Table 2.

SAMPLING AND ANALYSIS

Plant operating personnel perform analyses on the following parameters for process control (Table 1).

Water at the St. Thomas (Elgin) Water Treatment plant and at two locations in the distribution system was sampled for the presence of approximately 180 parameters monthly in 1989. The Specific Pesticides and Chlorophenols scans were sampled in June and November only. Polyaromatic Hydrocarbons and Phenolics are only analyzed in the raw and treated water at the plant. As of August

FIGURE 1

DRINKING WATER SURVEILLANCE PROGRAM SITE LOCATION MAP ELGIN WATER SUPPLY SYSTEM



ELGIN/ST THOMAS WTP

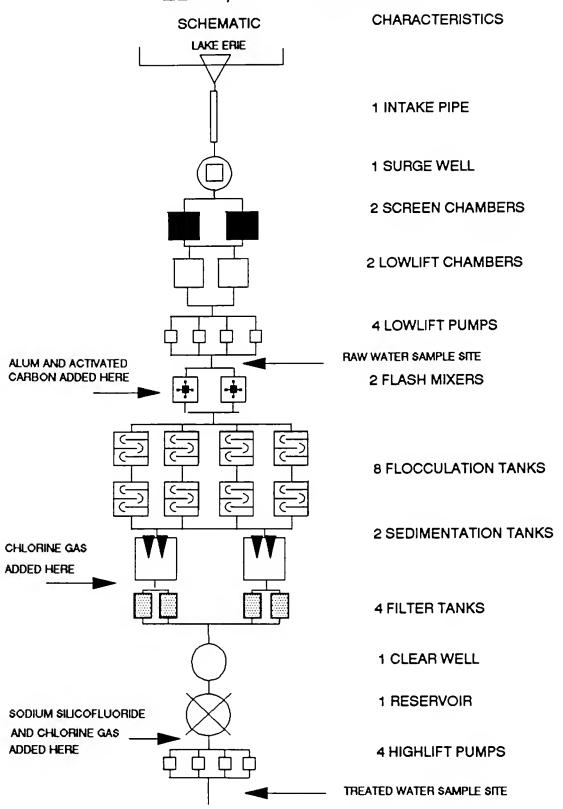


TABLE 1

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT

IN-PLANT MONITORING ST. THOMAS (ELGIN) WTP 1989

PARAMETER	LOCATION	FREQUENCY
Aluminum residual	Treated water	weekly
Chlorine residual-free total	Treated water Treated water	daily every 4 hrs
Fluoride	Treated water	daily
рН	Treated water	daily
Temperature	Treated water	daily
Turbidity	Raw intake line Treated water	continuous every 4 hrs

TABLE 2

DRINKING WATER SURVEILLANCE PROGRAM ANNUAL REPORT GENERAL INFORMATION

ELGIN/ST THOMAS WATER SUPPLY SYSTEM

LOCATION:

BOX 514

ST THOMAS, ONTARIO

COUNTY ROAD 24 (519-782-3101)

SOURCE:

RAW WATER SOURCE - LAKE ERIE

RATED CAPACITY:

45 (1000 M3/DAY)

OPERATION:

MINISTRY OF THE ENVIRONMENT

<u>PLANT SUPERINTENDENT:</u> R. POWER

MINISTRY REGION:

SOUTHWESTERN

DISTRICT OFFICER:

MR. P. BOLGER

MUNICIPALITY SERVED	POPULATION
ST THOMAS	31,350
YARMOUTH TWP	7,927
BAYHAM TWP	3,922
SOUTHWOLD TWP	4,342
MALAHIDE TWP	5,257
VIENNA VILLAGE	282
PT. BURWELL VILLAGE	681
PT. BRUCE VILLAGE	421

1989, the analysis of Triazine pesticides was dropped from the distribution sample. Laboratory analysis was conducted at the Ministry of the Environment facilities in Rexdale, Ontario.

RESULTS

Field Chemistry measurements were recorded on the day of sampling and were entered on the DWSP database as submitted by plant personnel.

Table 3 contains information on the sample day retention time, flow rate and treatment chemicals used and their associated dosages.

Table 4 is a summary break-down of the number of water samples analyzed by parameter and by water type. The number of times that a positive or trace result was detected is also reported.

Positive denotes that the result is greater than the statistical limit of detection established by the Ministry of the Environment (MOE) laboratory staff and is quantifiable. Trace (<T) denotes that the level measured is greater than the lowest value detectable by the method but lies so close to the detection limit that it cannot be confidently quantified.

Table 5 presents the results for parameters detected on at least one occasion.

Table 6 lists all parameters analyzed on DWSP.

Associated guidelines and detection limits are also supplied on tables 5 and 6. Parameters are listed alphabetically within each scan.

DISCUSSION

General

Water quality is judged by comparison with the Ontario Drinking Water Objectives (ODWOs) as defined in the 1984 publication (ISBN 0-7743-8985-0). The Province of Ontario has health related and aesthetic objectives for 49 parameters. These are currently under review. When an ODWO is not available, guidelines/limits from other agencies are consulted. The Parameters Listing System (PALIS), recently published (ISBN 0-7729-4461-X) by the MOE, catalogues and keeps current over 1750 guidelines for 650 parameters from agencies throughout the world.

Many of the compounds detected are naturally occurring or are treatment by-products.

IN THIS REPORT, DISCUSSION IS LIMITED TO THE TREATED AND DISTRIBUTED WATER AND ADDRESSES ONLY THOSE PARAMETERS WITH CONCENTRATIONS ABOVE GUIDELINE VALUES AND

ORGANICS WITH DETECTED POSITIVE RESULTS.

Results for the treated and distributed water indicate that no health related guidelines were exceeded.

Inorganic and Physical Parameters

Aluminum

The plant operational guideline of 100 μ g/L as Al in water leaving the plant was exceeded in six treated water samples.

Organic Parameters

Trihalomethanes

Trihalomethanes (THMs) are acknowledged to be produced during the water treatment process and will always occur in chlorinated surface waters. THMs are comprised of Chloroform, Chlorodibromomethane and Dichlorobromomethane. Bromoform occurs occasionally. Results are reported for the individual compounds as well as for total THMs. All Total THM occurrences, in the treated and distributed samples ranging from 25.9 to 80.0 μ g/L, were well below the ODWO of 350 μ g/L.

CONCLUSIONS

No health related water quality guidelines were exceeded.

Results listed in this report for 1989 are consistent with results reported for previous years.

The treated water was of good quality and this was maintained in the distribution system.

TABLE 3

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) SAMPLE DAY CONDITIONS FOR 1989

		SAMPLE DA	SAMPLE DAY CONDITIONS	S.	TREATMEN	TREATMENT CHEMICAL DOSAGES (MG/L)			
DELAY* FLOM TIME (HRS) (1000M3) 10.1 23.1 14.20 . 2.40 1.10 .25 10.1 23.1 14.20 . 2.40 1.10 .25 6.4 31.8 5.50 . 2.40 1.15 .20 6.4 31.8 5.00 . 2.00 1.15 .22 6.4 31.8 5.00 . 2.00 1.15 .22 6.4 31.8 11.50 . 2.00 1.15 .22 10.1 23.1 6.50 2.00 1.15 .22 10.1 23.1 8.50 . 2.90 1.25 .35 6.4 31.8 16.50 . 2.90 1.25 .35 6.4 31.8 16.50 . 2.90 1.30 .45 10.1 23.1 3.50 . 4.50 1.25 .40 10.1 23.1 .<				COAGULATION	9	TASTE & COOUR	PRE-CHLORINATION	POST-CHLORINATION	FLUORIDATION
10.1 23.1 14.20 1.10 .25 10.1 23.1 14.20 2.40 1.10 10.1 23.1 14.00 2.00 1.15 6.4 31.8 20.00 2.00 1.15 10.1 23.1 6.50 2.00 1.15 6.4 31.8 11.50 2.90 1.50 10.1 23.1 8.50 4.10 1.50 10.1 23.1 23.1 23.0 4.50 1.15 10.1 23.1 23.1 23.0 4.50 1.25 10.1 23.1 23.1 4.50 1.25 10.1 23.1 23.1 4.50 1.09	DATE	DELAY* Time(HRS)	FLOW (1000M3)	ALUM LIQUID	POLYALUMINUM SULPHATE	ACTIVATED CARBON POWDER		CHLORINE	SODIUM SILICOFLUORIDE
10.1 23.1 14.00 1.16 .18 6.4 31.8 5.50 2.00 1.15 6.4 31.8 20.00 1.15 <	70 NAT	101	23.1	14.20	1		1.10	.25	1.20
6.4 31.8 5.50 1.15 .20 6.4 31.8 20.00 1.15 .22 10.1 23.1 6.50 2.00 1.15 .22 10.1 23.1 6.50 2.00 1.15 .22 10.1 23.1 6.50 .20 1.25 .35 10.1 23.1 8.50 .45 .45 10.1 23.1 23.50 .45 .45 10.1 23.1 23.50 .23 .40 10.1 23.1 .23.50 .23 .40 10.1 23.1 .23.1 .23 1.09	EEB 07		3.1	14.00	•	2.40	1.10	.18	1.20
6.4 31.8 20.00 1.15 .22 10.1 23.1 6.50 2.00 1.15 .22 10.1 23.1 6.50 2.00 1.25 .35 10.1 23.1 6.50 .20 1.50 .25 10.1 23.1 8.50 .45 .45 10.1 23.1 23.50 .45 .45 10.1 23.1 23.50 .23 .40 10.1 23.1 .23 1.09	MAP 14		31.8	5.50	•	2.00	1.15	.20	1.20
10.1 23.1 . 6.50 2.00 1.15 22 10.1 23.1 6.50 . 2.10 1.25 35 6.4 31.8 11.50 25 25 10.1 23.1 8.50 4.10 1.50 10.1 23.1 23.0 4.50 1.15 4.0 10.1 23.1 23.5 4.50 1.25 1.09 10.1 23.1 20.00 4.50 23 1.09	APR 04		31.8	20.00	•	2.00	1.15	.22	1.20
10.1 23.1 6.50 2.90 1.50 6.4 31.8 11.50 2.90 1.50 10.1 23.1 8.50 4.10 1.50 6.4 31.8 16.50 4.50 1.30 10.1 23.1 23.5 4.50 1.25 10.1 23.1 23.1 4.50 1.09	MAY 01		23.1	•	6.50	2.00	1.15	.22	1.20
6.4 31.8 11.50 .25 10.1 23.1 8.50 .4.10 1.50 .45 6.4 31.8 16.50 .45 .45 .45 10.1 23.1 .35 .45 .45 .45 10.1 23.1 .23.50 .23 1.09	90 MI		23.1	6.50	•	2.10	1.25	.35	1.20
10.1 23.1 8.50 . 4.10 1.50 .45 6.4 31.8 16.50 . .43 .43 10.1 23.1 23.5 . .35 10.1 23.1 23.50 . .4.50 .23 .40 10.1 23.1 10.1 23.1 10.1 23.1 	50		31.8	11.50	•	2.90	1.50	.25	1.20
6.4 31.8 16.50	8 9 9		23.1	8.50	•	4.10	1.50	.45	1.00
10.1 23.1 .35 .35 10.1 23.1 .35 .450 1.25 .40 10.1 23.1 .23 1.09	200		31.8	16.50	•	9.20	1.30	.43	1.00
10.1 23.1 23.50 . 4.50 1.25 .40 10.1 23.1 23.1 . 20.00 4.50 .23 1.09	oct 17		23.1		8.50	4.50	1.15	.35	1.00
10.1 23.1	20 07		23.1	23.50	•	4.50	1.25	740	1.00
	DEC 05		3.1		20.00	4.50	.23	1.09	•

* THE DELAY TIME BETWEEN THE RAW AND TREATED WATER SAMPLING, SHOULD ESTIMATE THE RETENTION TIME.

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

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SUMMARY
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SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	SITIVE T	RACE	TOTAL	TOTAL POSITIVE	TRACE
BACTERIOLOGICAL	FECAL COLIFORM MF	12	2	0	•	•	•	•	•	•	•	•	
	STANORD PLATE CNT MF	•	•		12	m	0	12	2	0	Ξ	m	0
	TOTAL COLIFORM MF	12	7	0	12	0	0	12	0	0	=	0	0
	T COLIFORM BCKGRD MF	12	12		12	8	0	12	m	0	=	0	0
*TOTAL SCAN BACTERIOLOGICAL	10L0G1CAL	አ	54	0	38	v	0	%	5	0	33	r	0
*TOTAL GROUP BACTERIOLOGICAL	ERIOLOGICAL	%	54	0	%	•	0	38	5	0	33	m	0
CHEMISTRY (FLD)	FLD CHLORINE (COMB)				12	12	0	24	24	0	22	22	0
	FLD CHLORINE FREE	•	•	•	12	12	0	54	5 2	0	22	22	Ŭ
	FLD CHLORINE (TOTAL)	•	•	•	12	12	0	77	54	0	22	22	Ŭ
	FLO PH	12	12	0	12	12	0	54	5,5	0	22	22	0
	FLD TEMPERATURE	12	12	0	12	12	0	ສ	23	0	22	22	Ŭ
	FLD TURBIDITY	12	12	0	12	12	0	5%	%	0	22	22	0
*TOTAL SCAN CHEMISTRY (FLD)	STRY (FLD)	%	ጽ	0	22	2	0	143	143	0	132	132	0
CHEMISTRY (LAB)	ALKALINITY	12	12	0	12	12	0	54	24	0	22	22	0
	CALCIUM	12	12	0	12	12	0	54	7,7	0	22	22	
	CYANIDE	12	0	-	12	0	0	12	0	0	=	0	0
	CHLOR IDE	12	12	0	12	12	0	54	54	0	22	22	
	COLOUR	12	2	7	12	0	=	54	0	20	22	0	
	VI IVI IVI IVI	+	:	•	•	•	•	;	;				

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE											
			RAW		TRE	TREATED		SI	SITE 1		S	SITE 2	
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL P	TOTAL POSITIVE TRACE	RACE	TOTAL	TOTAL POSITIVE	TRACE
CHEMISTRY (LAB)	FLUORIDE	12	12	0	12	12	0	77	24	0	22	22	0
	HARDNESS	12	12	0	12	12	0	54	54	0	22	22	0
	IONCAL	12	12	0	12	12	0	57	5%	0	22	22	0
	LANGELIERS INDEX	12	12	0	12	12	0	72	54	0	22	22	0
	MAGNESIUM	12	12	0	12	12	0	57	54	0	22	22	0
	SOD IUM	12	12	0	12	12	0	54	54	0	22	22	0
	AMMONTUM TOTAL	12	-	•	12	-	9	57	m	12	22	•	13
	NITRITE	12	7	2	12	0	œ	54	0	19	22	0	5
	TOTAL NITRATES	12	12	0	12	12	0	57	54	0	22	22	0
	NITROGEN TOT KJELD	12	12	0	12	12	0	57	54	0	22	22	0
	2	12	12	0	12	12	0	54	54	0	22	22	0
	PHOSPHORUS FIL REACT	12	80	M	12	0	2	•	•	•	•	•	•
	PHOSPHORUS TOTAL	12	12	0	12	•	9	•	•	•	•	•	•
	SULPHATE	12	12	0	12	12	0	57	54	0	22	22	0
	TURBIDITY	12	12	0	12	12	0	72	8	9	22	17	5
*TOTAL SCAN CHEMISTRY (LAB)	(LAB)	252	210	22	252	182	07	777	357	57	407	326	52
METALS	SILVER	12	0	7	=	0		54	0	∞	22	0	
	ALUMINUM	12	12		=	=	0	5%	57	0	22	22	0
	ARSENIC	12	10	2	=	2	٥	%	2	22	22	-	×
	BARIUM	12	12		Ξ	=	0	72	72	0	22	22	Ŭ
	BORON	12	1		Ξ	=	0	72	21	m	22	20	•••
	BERYLLIUM	12	0	=	=	0	60	57	0	7	22	0	٥

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE	RAU		TREATED	TED		SITE			2112		
SCAN	PARAMETER	TOTAL POS	POSITIVE TRACE	rACE	TOTAL POSITIVE TRACE	SITIVE	RACE	TOTAL POSITIVE TRACE	TIVE T	RACE	TOTAL POSITIVE TRACE	IVE	RACE
METALS	CADMIUM	12	0	4	=	0	7	24	0	^	22	0	•
	COBALT	12	2	10	=	0	Ξ	72	0	22	22	0	22
	CHROMIUM	12	9	9	=	•	m	72	13	€	22	•	9
	COPPER	12	12	0	Ξ	9	2	57	57	0	22	22	0
	1 ROM	12	=	0	Ξ	-	•	72	0	00	22	0	20
	MERCURY	12	0	12	12	m	٥	12	2	2	=======================================	-	10
	MANGANESE	12	=	0	=	٥	~	57	17	7	22	22	0
	MOLYBDENUM	12	٥	m	=	=	0	57	57	0	22	22	0
	NICKEL	12	M	٥	=	0	9	57	M	21	22	m	18
	LEAD	12	Ξ	-	=	-	7	57	23	-	22	22	0
	ANTIMONY	12	12	0	=	=	0	54	54	0	22	22	0
	SELENIUM	12	-	7	=	-	7	54	0	2	22	-	16
	STRONTIUM	12	12	0	=	Ξ	0	54	57	0	22	22	0
	TITANIUM	12	Ξ	-	=	10	-	54	12	m	22	17	2
	THALLIUM	12	-	٥	=	0	4	54	0	Ξ	22	0	9
	URANIUM	12	12	0	=	٥	~	54	22	7	22	2	2
	VANADIUM	12	£	~	Ξ	٣	∞	54	©	9	22	^	15
	ZINC	12	Ξ	-	=	S	•	54	57	0	22	2	-
*TOTAL SCAN METALS		288	5	ž	265	122	103	3 8	300	181	517	273	881
*TOTAL GROUP INORGANIC & PHYSICAL	INIC & PHYSICAL	576	425	5	589	376	143	1151	800	238	1056	15.	220
CHLOROAROMATICS	HEXACHLOROBUTADIENE	11	0	0	12	0	0	12	0	0	1	0	0
	123 TRICHLOROBENZENE	=	0	0	12	0	0	12	0	0	1	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE												
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TRE TOTAL P	TREATED TOTAL POSITIVE TRACE	TRACE	S TOTAL	SITE 1 TOTAL POSITIVE TRACE	TRACE	STOTAL	SITE 2 TOTAL POSITIVE TRACE	TRACE	
CHLOROAROMATICS	1234 T-CHLOROBENZENE	=======================================	0	٥	12	C		12		-	=	-		: _
	1235 T-CHLOROBENZENE	Ξ	0	0	12	0	0	12	0	0	Ξ	0	, 0	
	124 TRICHLOROBENZENE		0	0	12	0	0	12	0	0	1	0	0	_
	1245 T-CHLOROBENZENE	=======================================	0	0	12	0	0	12	0	0	1	0	٠	0
	135 TRICHLOROBENZENE	=	0	0	12	0	0	12	0	0	Ξ	0	Ü	0
	нсв	=	0	0	12	0	0	12	0	0	Ξ	0	Ü	0
	HEXACHLOROETHANE	=	0	0	12	0	0	12	0	0	11	0	Ü	0
	OCTACHLOROSTYRENE	=	0	0	12	0	0	12	0	0	=======================================	0	Ū	0
	PENTACHLOROBENZENE	=	0	0	12	0	0	12	0	0	=	0	_	
	236 TRICHLOROTOLUENE	1	0	0	12	0	0	12	0	0	=	0	_	0
	245 TRICHLOROTOLUENE	1	0	0	12	0	0	12	0	0	Ξ	0	_	0
	26A TRICHLOROTOLUENE	=	0	0	12	0	0	12	0	0	Ξ	0	Ū	0
*TOTAL SCAN CHLOROAROMATICS	OMATICS	154	0	0	168	0	0	168	0	0	154	0	_	
CHLOROPHENOLS	234 TRICHLOROPHENOL	2	0	0	2	0	0	1 1 1 1 1	: • : : : : :		•	• • • • • • • • • •		: .
	2345 T-CHLOROPHENOL	2	0	0	2	0	0	•	•	٠		•		
	2356 T-CHLOROPHENOL	2	0	0	2	0	0	•	•	•	٠	٠		
	245-TRICHLOROPHENOL	2	0	0	2	0	0	•	•	•	•	•	·	
	246-TRICHLOROPHENOL	2	0	0	2	0	0	•	•	•	•	•	·	
	PENTACHLOROPHENOL	2	0	0	2	0	0	•	•	•	•	•	·	
ATOTAL SCAN CHIOROPHENDIS	0 10 N	12		_	12	_	c	-	_	_	_	c		_
מבער בורכנים		-	•	•	_	•	•	•	•		•	•		

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE										
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	RACE	TREATED TOTAL POSIT	TREATED TOTAL POSITIVE TRACE	E	SITE . TOTAL POSIT	SITE 1 TOTAL POSITIVE TRACE		SITE 2 TOTAL POSITIVE TRACE	TRACE
РАН	PHENANTHRENE	12	0	0	12	0	0					
	ANTHRACENE	12	0	0	12	0	0	•		•	•	•
	FLUORANTHENE	12	0	0	12	0	0	•	•	•	•	
	PYRENE	12	0	0	12	0	0	•	•	•	•	
	BENZO(A)ANTHRACENE	12	0	0	12	0	0	•		•	•	•
	CHRYSENE	12	0	0	12	0	0	•		•	•	•
	DIMETH. BENZ(A)ANTHR	M	0	0	m	0	0	•		•	•	•
	BENZO(E) PYRENE	12	0	0	12	0	0	•		•	•	•
	BENZO(B) FLUORANTHEN	12	0	0	12	0	0	•		•	•	·
	PERYLENE	12	0	0	12	0	0	•		•	•	•
	BENZO(K) FLUORANTHEN	12	0	0	12	0	0	•	•	•	•	•
	BENZO(A) PYRENE	2	0	0	5	0	0	•		•	•	·
	BENZO(G, H, 1) PERYLEN	12	0	0	12	0	0	•		•	•	·
	DIBENZO(A, H) ANTHRAC	12	0	0	12	0	0	•		•	•	·
	INDENO(1,2,3-C,0) PY	12	0	0	12	0	0	•		•	•	·
	BENZO(B) CHRYSENE	12	0	0	12	0	0			•	•	•
	CORONENE	12	0	0	12	0	0	•		•	•	·
*TOTAL SCAN PAH		88	0	0	188	0	0	0	0	0	•	•
0 0 0 0 0 0 0 0 0 0 0						,						
PESTICIDES & PCB	ALDRIN	Ξ	0	0	12	0	0	12	0	Ξ	0	0
	ALPHA BHC	Ξ	0	9	12	0	4	12	0 3	Ξ	0	m
	BETA BHC	Ξ	0	0	12	0	0	12	0 0	Ξ	0	0
	LINDANE	Ξ	0	-	12	0	-	12	0	Ξ	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE											•
			RAU		TREATED	E0		SITE 1	-		SITE 2		
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	TIVE		TOTAL POS	TOTAL POSITIVE TRACE	,	TOTAL POSITIVE TRACE	TRACE	
PESTICIOES & PCB	ALPHA CHLORDANE	1	0	0	12	0	0	12	0	11	0	0	•
	GAMMA CHLORDANE	Ξ	0	0	12	0	0	12	0		0	0	
	DIELDRIN	Ξ	0	0	12	0	0	12	0	11	0	0	
	METHOXYCHLOR	Ξ	0	0	12	0	0	12	0	11	0	0	
	ENDOSULFAN 1	Ξ	0	0	12	0	0	12	0	11	0	0	
	ENDOSULFAN 11	=	0	0	12	0	0	12	0	11	0	0	
	ENORIN	1	0	0	12	0	0	12	0	11	0	0	
	ENDOSULFAN SULPHATE	Ξ	0	0	12	0	0	12	0	11 0	0	0	
	HEPTACHLOR EPOXIDE	=	0	0	12	0	0	12	0	11	0	0	
	HEPTACHLOR	Ξ	0	0	12	0	0	12	0	11	0	0	
	MIREX	Ξ	0	0	12	0	0	12	0		0	0	
	OXYCHLORDANE	Ξ	0	0	12	0	0	12	0		0	0	
	OP001	Ξ	0	0	12	0	0	12	0	= -	0	0	
	PC8	=	0	0	12	0	0	12	0	=	0	0	
	000	=	0	0	12	0	0	12	0		0	0	
	PPDDE	Ξ	0	0	12	0	0	12	0	11	0	0	
	PPD0T	Ξ	0	0	12	0	0	12	0	0 11	0	0	
	AMETRINE	12	0	0	12	0	0	7	0	9	0	0	
	ATRAZINE	12	0	-	12	0	-	7	0	9	0	-	
	ATRATONE	12	0	0	12	0	0	7	0	9 0	0	0	
	CYANAZINE (BLADEX)	12	0	0	12	0	0	7	0	9	0	0	
	D-ETHYL ATRAZINE	12	0	0	12	0	0	7	0	9	0	0	
	D-ETHYL SIMAZINE	12	0	0	12	0	0	7	0	9	0	0	
	PROMETONE	12	0	0	12	0	0	7	0	9	0	0	
	PROPAZINE	12	0	0	12	0	0	7	0	9	0	0	

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUPPLARY TABLE OF RESULTS (1989)

FAM TREATED IT TOTAL POSITIVE TRACE TOTAL POSITIVE IN (SENCOR) 12 0 0 12 (LASSO) 12 0 0 12 (LASSO) 12 0 0 12 OR 12 10 1 12 12 10 1 12 13 10 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 3 0 0 2 4 0 0 2 5 0 0 2 6 0 0 2 7 0 0 0 2 8 0 0 0 2 8 0 0 2 9 0 0 2			SITE											
PARAMETER TOTAL POSITIVE TRACE				RAW		1	REATED		SITE	F 1		v	SITE 2	
PROMETRYNE METRIBUZIN (SENCOR) SINAZINE ALACHLOR (LASSO) 12 ALACHLOR (LASSO) 12 0 12 0 12 12 13 14 15 16 17 18 18 19 10 11 12 12 14 15 16 17 18 18 18 19 18 19 19 10 10 10 10 10 10 10 10		PARAMETER	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL POSITIVE TRACE	SITIVE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRACE
NETRIBUZIN (SENCOR) 12 0 0 12 SIMAZINE 12 0 0 12 ALACHLOR (LASSO) 12 0 0 12 METOLACHLOR 12 0 0 12 METOLACHLOR 387 0 8 408 S. & PCB 387 0 8 408 S. & PCB 387 0 8 408 TOXAPHENE 11 0 1 12 Z,4-D 2 0 0 2 Z,4-D 2 Z,4-D 2 0 0 2 Z,4-D 2 Z,4-D 2 0 0 2 Z,4-D 3 Z,4-	ICIDES & PCB	PROMETRYNE	12	0	0	12	0	0	7	0	0	•	0	
SIMAZINE 12 0 0 12 ALACHLOR (LASSO) 12 0 0 12 METOLACHLOR (LASSO) 12 0 0 12 S. & PCB 387 0 8 408 S. & PCB 387 0 8 408 TOXAPHENE 11 10 1 12 S. & PCB 12 10 1 12 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 0 0 2 S. & PCB 2, 4.5 - T 2 S. & PCB 3, 4.5 - T 3 S. & PCB 3, 4.5 - T 3 S. & PCB 3, 4.08 S. & P		METRIBUZIN (SENCOR)	12	0	0	12	0		~	0	0	•	0	0
ALACHLOR (LASSO) 12 0 0 12 METOLACHLOR S. L. PCB S.		SIMAZINE	12	0	0	12	0		~	0	0	9	0	0
NETOLACHLOR 12 0 12 S. & PCB 387 0 8 408 PHENOLICS 12 10 1 12 PHENOLICS 12 10 1 12 PHENOLICS 12 10 1 12 TOXAPHENE 11 0 0 2 2,4-D 2 0 0 2 DICAMBA 2 0 0 2 PICHLORANG 2 0 0 2 DICHLOROVOS 2 0 0 2 CHLORPYRIFOS 2 0 0 2 0 0 0 0 0 2 0 0 0 0 0<		ALACHLOR (LASSO)	12	0	0	12	0	0	7	0	0	9	0	0
S. & PCB 387 0 8 408 PHEMOLICS 12 0 1 12 PHEMOLICS 12 10 1 12 TOXAPHENE 11 0 0 12 2,4-0 2 0 0 2 2,4-0 2 0 0 2 2,4-0 2 0 0 2 2,4-0 2 0 0 2 2,4-0 2 0 0 2 2,4-0 2 0 0 2 2,4-0 2 0 0 2 DICANBA 2 0 0 2 PICHLORAM 2 0 0 0 SILVEX 2 0 0 2 DICALOROVOS 2 0 0 2 CHLORPYRIFOS 2 0 0 0 0		METOLACHLOR	12	0	0	12	0	0	7	0	0	•	0	0
PHENOLICS 12 10 1 12 TOXAPHENE 11 0 0 12 2,4,5-T 2 0 0 2 2,4-D 2,4-DB 2 0 0 2 DICAMBA 2 0 0 2 DICALORAN 2 0 0 2 DICALOROVOS 2 0 0 2 CHLORPYRIFOS 2 0 0 2	AL SCAN PESTICIDE	S & PCB	387	0	€0	408	0	•	343	0	m	309	0	4
12 10 1 12 TOXAPHENE 2,4,5-T 2,4-D 2,4-D 2,4-DB 2,4-DB 2,4-DB 2,4-D PROPIONIC ACID 2,4-D PROPIONIC ACID 2 0 0 2 2,4-D PROPIONIC ACID 2 0 0 2 2,4-D PROPIONIC ACID 2 0 0 2 21,4-D PROPIONIC ACID 2 0 0 2 21,4-D PROPIONIC ACID 2 0 0 2 21,4-D PROPIONIC ACID 3 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 2 0 0 2 3 0 0 2 3 0 0 2 3 0 0 2 3 0 0 2 4 0 0 2 4 0 0 2 5 0 0 0 2	OLICS	PHENOL I CS	12	10	-	12	60	m			٠		٠	
TOXAPHENE 11 0 0 12 2,4,5-T 2 0 0 2 2,4,5-T 2 0 0 2 2,4,0 2 0 0 2 2,4,0 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 0 0 2 0 0 2 0 0 2 0 0 2 0 0 2 0 0 0 0 0 0 0 0 0 <t< td=""><td>AL SCAN PHENOLICS</td><td></td><td>12</td><td>10</td><td>-</td><td>12</td><td>€0</td><td>m</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>J</td></t<>	AL SCAN PHENOLICS		12	10	-	12	€0	m	0	0	0	0	0	J
	•	TOXAPHENE	=	0	0	12	0	0	12	0	0	=	0	
		2,4,5-1	2	0	0	2	0	0	•	•	•	•	•	•
		2,4-0	2	0	0	7	0	0	•	•	•	•	•	•
		2,4-08	2	0	0	7	0	0	•	•	•	•	•	•
		2,4 D PROPIONIC ACID	2	0	0	2	0	0	•	•	•	•	•	·
		DICAMBA	2	0	0	2	0	0	•	•	•	•	•	·
2 0 0 0 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0		PICHLORAM	0	0	0	0	0	0	•	٠	•	•	•	
2 0 0 2 2 0 0 2 3		SILVEX	2	0	0	7	0	0	•	•	•	•	•	
2 0 0 2		DIAZINON	2	0	0	2	0	0	•	•	•	•	•	-
2 0 0 2		DICHLOROVOS	2	0	0	2	0	0	•	•	•	•	•	-
		CHLORPYRIFOS	2	0	0	2	0	0	•	•	•	•	•	•

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE											
			RAW		TRE	TREATED		SITE 1			SITE 2		
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE	TRACE	TOTAL P	TOTAL POSITIVE TRACE	TRACE	TOTAL POSITIVE TRACE	/E IRAC		TOTAL POSTITIVE TRACE	X .	: ب
SPECIFIC PESTICIDES	ETHION	2	0	0	8	0	0	•			•		
	AZINPHOS-METHYL	-	0	0	-	0	0	•			•		
	MALATHION	2	0	0	2	0	0	•			•		
	MEVINPHOS	2	0	0	2	0	0				•		
	METHYL PARATHION	2	0	0	2	0	0				•		
		2	0	0	2	0	0						
	PARATHION	2	0	0	2	0	0	•			•		
	PHORATE	2	0	0	2	0	0	•			•		
	RELDAN	2	0	0	7	0	0	•			•		
	RONNEL	2	0	0	2	0	0	•					
	AMINOCARB	0	0	0	0	0	0	•			•		•
	BENONYL	_	0	0	-	0	0	•					
	BUX	0	0	0	0	0	0	•					
	CARBOFURAN	2	0	0	2	0	0	•					
	CICP	2	0	0	2	0	0	•	•				
	DIALLATE	2	0	0	2	0	0						
	EPTAM	-	0	0	-	0	0	•					
	IPC	2	0	0	7	0	0				•		
	PROPOXUR	2	0	0	2	0	0				•		
	CARBARYL	2	0	0	2	0	0				•		
	BUTYLATE	2	0	0	7	0	0						
*TOTAL SCAN SPECIFIC PESTICIOES	PESTICIOES	\$	0	0	65	0	0	12	0	0	11	0	0
VOLATILES	BENZENE	12	0	0	12	0	0	10	0	0	10	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE											
SCAN	PARAMETER	TOTAL	RAW TOTAL POSITIVE TRACE	TRACE	TREATED TOTAL POSIT	TREATED TOTAL POSITIVE TRACE		SITE TOTAL POSI	SITE 1 TOTAL POSITIVE TRACE	ACE	SITE 2 TOTAL POSITIVE TRACE	IVE 1	RACE
VOLATILES	TOLUENE	12	0	0	12	0	~		0	4	10		2
	ETHYLBENZENE	12	0	0	12	0	-	₽	0	m	10	0	0
	P-XYLENE	12	0	0	12	0	0	£	0	0	10	0	0
	M-XYLENE	12	0	0	12	0	0	\$	0	0	10	0	0
	O-XYLENE	12	0	0	12	0	0	5	0	0	10	0	0
	STYRENE	12	0	50	12	0	7	9	0	7	10	0	2
	1,1 DICHLOROETHYLENE	12	0	0	12	0	0	£	0	0	10	0	0
	METHYLENE CHLORIDE	12	0	0	12	0	0	£	0	0	10	0	0
	T1, 201CHLOROETHYLENE	12	0	0	12	0	0	₽	0	0	10	0	0
	1,1 DICHLOROETHANE	12	0	0	12	0	0	£	0	0	10	0	0
	CHLOROFORM	12	0	m	12	12	0	Q	1	0	5	9	0
	111, TRICHLOROETHANE	12	0	~	12	0	0	2	0	-	0	0	-
	1,2 DICHLOROETHANE	12	0	0	12	0	0	2	0	0	0	0	0
	CARBON TETRACHLORIDE	12	0	0	12	0	0	£	0	0	0	0	0
	1,2 DICHLOROPROPANE	12	0	0	12	0	0	₽	0	0	0	0	0
	TRICHLOROETHYLENE	12	0	0	12	0	0	£	0	0	0	0	0
	DICHLOROBROMOMETHANE	12	0	4	12	12	0	₽	2	0	10	2	0
	112 TRICHLOROETHANE	12	0	0	12	0	0	2	0	0	5	0	0
	CHLOROD I BROMOMETHANE	12	0	m	12	12	0	1	2	0	1 0	9	0
	T-CHLOROETHYLENE	12	0	0	12	0	2	2	0	m	5	0	-
	BROMOFORM	12	0	0	12	0	2	2	0	٥	5	0	2
	1122 T-CHLOROETHANE	12	0	0	12	0	0	2	0	0	10	0	0
	CHLOROBENZENE	12	0	0	12	0	0	2	0	0	10	0	0
	1,4 DICHLOROBENZENE	12	0	0	12	0	0	2	0	0	10	0	0
	1,3 DICHLOROBENZENE	12	0	0	12	0	0	5	0	0	10	0	0

TABLE 4

DRINKING WATER SURVEILLANCE PROGRAM ELGIN

SUMMARY TABLE OF RESULTS (1989)

		SITE												
			RAU		=	TREATED		Ψ,	SITE 1		S	SITE 2		
SCAN	PARAMETER	TOTAL	TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE TOTAL POSITIVE TRACE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	POSITIVE	TRACE	TOTAL	TOTAL POSITIVE TRACE	TRAC	ببر
VOLATILES 1.2 DICH	LOROBENZENE	12	12 0 0 12 0 0 10 0 0 10 0 0	0	12	0	0	10	0	•	₽	٥		0
	ETHLYENE DIBROMIDE	12	0	0	12	0	0	9	0	0	2	0		0
	TOTL TRIMALOMETHANES	12	0	0	12	12	0	10	10	0	2	₽		0
STOTAL CCAN VOLATILES	ŭ	348	0	17	348	87	17	82				07		9
*TOTAL GROUP ORGANIC	J	1165	5		1201			813	07	\$2	76	07		2
														;
TOTAL		1777		459 132 1826	1826	437	169	2000	845	263	1853	774		240

KEY TO TABLE 5 and 6

- A ONTARIO DRINKING WATER OBJECTIVES (ODWO)
 - 1. Maximum Acceptable Concentration (MAC)
 - 1+. MAC for Total Trihalomethanes
 - 1*. MAC for Bacteriological Analyses
 Poor water quality is indicated when :
 - total coliform counts > 0 < 5
 - P/A Bottle Test is present after 48 hours
 - Aeromonas organisms are detected in more than 25% of samples in a single submission or in successive submissions from the same sampling site
 - Pseudomonas Aeruginosa, Staphylococcus Aureus and members of the Fecal Streptococcus group should not be detected in any sample
 - Standard Plate Count should not exceed 500 organisms per ml at 35 °C within 48 hours
 - 2. Interim Maximum Acceptable Concentration (IMAC)
 - 3. Maximum Desirable Concentration (MDC)
 - 4. Aesthetic or Recommended Operational Guideline
 - hardness levels between 80 and 100 mg/L as calcium carbonate are considered to provide an acceptable balance between corrosion and incrustation, water supplies with a hardness >200 mg/L are considered poor and those in excess of 500 mg/L are unacceptable.
- B HEALTH & WELFARE CANADA (H&W)
 - 1. Maximum Acceptable Concentration (MAC)
 - 2. Proposed MAC
 - 3. Interim MAC
 - Aesthetic Objective (AO) (for xylenes, the AO is a total)
- C WORLD HEALTH ORGANIZATION (WHO)
 - Guideline Value (GV)
 - 2. Tentative GV
 - 3. Aesthetic GV
- D US ENVIRONMENTAL PROTECTION AGENCY (EPA)
 - 1. Maximum Contaminant Level (MCL)
 - Suggested No-Adverse Effect Level (SNAEL)
 - 3. Lifetime Health Advisory
 - 4. EPA Ambient Water Quality Criteria
- F EUROPEAN ECONOMIC COMMUNITY (EEC)
 - 1. Health Related Guideline Level
 - 2. Aesthetic Guideline Level
 - 3. Maximum Admissable Concentration (MADC)
- G CALIFORNIA STATE DEPARTMENT OF HEALTH-GUIDELINE VALUE
- H USSR MAXIMUM PERMISSIBLE CONCENTRATION
- I NEW YORK STATE AMBIENT WATER GUIDELINE
- N/A NONE AVAILABLE

INTERPRETATION OF DATA

The interpretation of analytical results that are obtained from measurements near the limit of detection of the measurement process is subject to greater uncertainty than those at higher concentrations. The principle areas of concern relate to whether the substance has actually been detected, whether it has been properly identified, and whether it is an artifact of the measurement process. In other words, false positives can be caused by the instrumentation or the test procedures used, when in fact these compounds are not present in the sample.

There are several methods to treat data from such measurements:
1. Exclude the low-level data because of this uncertainty factor.
Studies of long-term environmental trends and modelling may however, be adversely affected by the exclusion of such data.
2. Qualify these data so the user is aware of the greater uncertainty associated with their use.

For the Drinking Water Surveillance Program, measurements near the limit of detection of the measurement process are reported with the code "<T". Results qualified by "W" indicate a zero measurement. These results are reported for purposes of modelling and long-term trend analysis and no significance should be attributed to a single determination of a substance below "T" (a single determination may well be a false positive). Repeat analysis or additional data are needed before it can be stated with certainty that the substance in question was truly present. On the other hand, it is less likely that repeated detection of a substance at or near the limit of detection at a specific location is solely due to an artifact in the measurement system, and more likely represents a true positive. The average of such data however, is still only an estimate of the amount of substance present subject to the possible biases of the method used.

LABORATORY RESULTS, REMARK DESCRIPTIONS

•	No Sample Taken
BDL	Below Minimum Measurable Amount
<t< td=""><td>Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)</td></t<>	Greater Than Detection Limit But Not Confident (SEE INTERPRETATION OF RESULTS ABOVE)
>	Results Are Greater Than The Upper Limit
<=>	Approximate Result
!cs	No Data: Contamination Suspected
!IL	No Data: Sample Incorrectly Labelled
!IS	No Data: Insufficient Sample
!IV	No Data: Inverted Septum
! LA	No Data: Laboratory Accident
!LD	No Data: Test Queued After Sample Discarded

! NA	No Data: No Authorization To Perform Reanalysis
!NP	No Data: No Procedure
!NR	No Data: Sample Not Received
!OP	No Data: Obscured Plate
! QU	No Data: Quality Control Unacceptable
!RE	No Data: Received Empty
!RO	No Data: See Attached Report (no numeric results)
!SM	No Data: Sample Missing
!ss	No Data: Send Separate Sample Properly Preserved
!UI	No Data: Indeterminant Interference
!TX	No Data: Time Expired
A3C	Approximate, Total Count Exceeded 300 Colonies
APL	Additional Peak, Large, Not Priority Pollutant
APS	Additional Peak, Less Than, Not Priority Pollutant
CIC	Possible Contamination, Improper Cap
CRO	Calculated Result Only
PPS	Test Performed On Preserved Sample
RMP	P and M-Xylene Not Separated
RRV	Rerun Verification
RVU	Reported Value Unusual
SPS	Several Peaks, Small, Not Priority Pollutant
UAL	Unreliable: Sample Age Exceeds Normal Limit
UCR	Unreliable: Could Not Confirm By Reanalysis
ucs	Unreliable: Contamination Suspected
USD	Unreliable: Sample Decomposition Noted
UIN	Unreliable: Indeterminant Interference
XP	Positive After X Number of Hours

XP Positive After X Number of Hours

T# (T06) Result Taken After # Hours

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	BACTERIO	LOGICAL				
FECAL COLIF	FORM MF (CT/100H	IL)	DET'N L	IMIT = 0	GUIDELINE =	0 (A1)
MAL	BDL	•	•			
FEB	6 T24	•	•	•		•
MAR	BDL	•	•	•	•	
APR	6 <=>	•	•	•	•	•
MAY	BDL	•	•	•	•	•
JUN	BDL	•	•	•	•	•
JUL	BDL	•	•	•	•	•
AUG	BDL	•	•		•	•
SEP	7 6	•	•	•	•	•
OCT	4	•	•	•	•	•
NOV	24	•	•	•	•	•
DEC	12	•	•	•	•	•
TANDRD PLA	ATE CNT MF ()	DET'N L	IMIT = 0	GUIDELINE =	500/ML (A1)
NAL		1 <=>		5	<=> .	0 <=>
FEB	•	124 T24	•	0	<=> .	0 <=>
MAR	•	1 <=>	•	0	<=> .	0 <=>
APR		69 T48	•	16	T24 .	22 124
MAY	•	0 <=>			<=> .	2 <=>
JUN	•	0 <=>		1	<=> .	
JUL	•	0 <=>		0	<=> .	5 <=>
AUG	•	0 <=>		0	<=> .	0 <=>
SEP		2 <=>	•	1	<=> .	40
OCT		2 <=>		1	<=> .	0 <=>
NOV	•	61		1360		900
DEC	•	0 <=>	•	0	<=> ,	1 <=>
OTAL COLIF	ORM MF (CT/100M	 L)	DET'N L	IMIT = 0	GUIDELINE =	5/100HL(A1)
WAL	148 A3C	O T24		0	124 .	О Т24
FEB	1580 A3C	0 T24	•		T24 .	0 124
MAR	BDL	0 T24	•		T24 .	0 T24
APR	220 A3C	0 T48	•		124 .	0 T24
MAY	7	0	•	0		0
JUN	14	0	•	0	•	•
JUL	BDL	0	•	0	•	
AUG	60 <=>	0	•	0	•	0
SEP	130 A3C	Õ	•	0	•	0
OCT	30 <=>	0	•	0	•	0
NOV	400 <=>	Ō	•	0	•	0
DEC	360	0		0	•	0
COLIFORM	BCKGRD MF (CT/1	00ML)	DET'N L	MIT = 0	GUIDELINE =	N/A
JAN	1280 T24	11 174		4	T2/.	በ ተን/
JAN FEB	1280 T24 28000 A3C	0 T24 0 T24	•		T24 .	0 T24 0 T24

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
	KAW	IREATED	3116 1		2115 2	
• • • • • • • • • • • • • • • • • • • •			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	16000 A3C	1 T48	•	1 T24		0 124
MAY	257	0	•	0		0
JUN	282	1		1		•
JUL	00000 >	0		0		0
AUG	4200	0		0		0
SEP	7800 A3C	0		0		0
ост	8800 A3C	0		0		0
NOV	74000 A3C	0		0	•	Û
DEC	1180	n	•	n	•	n

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	CHEMIS	STRY (FLD)				
FLD CHLORINE	*)	DET'N L	IMIT = N/A	GUIDELINE =	N/A
JAN	~	.150	.400	.050	.100	.100
FEB		.100	.200	.050	.050	.100
MAR		.150	.300	.050	.050	.050
APR	-	.050	.200	.050	.150	.050
MAY		.050	.400	.100	.050	.100
JUN		.150	.400	.100		
JUL	•	.100	.300	.050	.050	.050
AUG		.150	.200	.050	.050	.050
SEP		.050	.200	.050	.050	.050
OCT		.100	.200	.050	.050	.100
NOV	-	.100	.100	.250	.050	.100
DEC	•	.100	.400	.100	.150	.100
LD CHLORINE	FREE ()	DET'N L	IMIT = N/A	GUIDELINE =	N/A
JAN		.800	.400	.800	.300	.350
FEB	•	.650	.400	.750	.300	.350
MAR	•	.600	.400	.750	.300	.350
APR	•	.800	.500	.800	.200	.350
HAY	•	.750	.400	.750	.150	.250
JUN	-	.800	.100	.750	•	•
JUL	•	.850	.300	.750	.150	.200
AUG		.800	.600	.950	.150	.150
SEP		.950	.500	.800	.150	.150
OCT		.900	.500	.750	.150	.150
NOV		.850	.550	.950	.100	. 150
DEC	•	.800	.200	.650	.050	.150
LD CHLORINE	(TOTAL) ()	DET'N L	IMIT = N/A	GUIDELINE =	N/A
JAN		.950	.800	.850	.400	.450
FEB	•	.750	.600	.800	.350	.450
MAR	•	.750	.700	.800	.350	.400
APR	•	.850	.700	.850		.400
MAY	•	.800	.800	.850	.350 .200	.350
JUN	•	.950	.500	.850		
JUL	•	.950	.600	.800	.200	.250
AUG	•	.950	.800	1.000	.200	.200
SEP	•	1.000	.700	.850	.200	.200
OCT	•	1.000	.700	.800	.200	.250
NOV	•	.950	.650	1.200	.150	.250
DEC	•	.900	.600	.750	.200	.250
LD PH (DMNSL	ESS)		DET'N L	IMIT = N/A	GUIDELINE =	6.5-8.5(A4)
JAN	7.600	7 /50	7 700	7 700	7.500	7 /50
FEB		7.450	7.300	7.300	7.500	7.450
	7.800	7.350	7.500	7.300	7.500	7.450
MAR	8.000	7.450	7.400	7.300	7.400	7.500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	8.400	7.350	7 /00	7 750	7 /50	7 /50
MAY	8.000		7.400	7.350	7.450	7.450
JUN	7.800	7.450	7.500	7.250	7.550	7.500
JUL		7.300	7.400	7.300	7 500	7.750
AUG	7.800	7.300	7.500	7.300	7.500	7.350
SEP	7.500 8.000	7.300	7.300	7.250	7.550	7.450
OCT	7.800	7.500	7.500	7.450	7.500	7.500
NOV		7.450	7.700	7.450	7.350	7.450
DEC	8.000	7.400	7.500	7.300	7.300	7.500
	7.600	7.450	7.500	7.450	7.550	7.500
LD TEMPE	RATURE (DEG.C)	DET'N LI	MIT = N/A	GUIDELINE =	15 (A1)
JAN	2.000	1.000	11.500	4.500	17.500	7.000
FEB	2.000	1.000	9.500		20.000	4.500
MAR	5.000	1.500	10.000	2.500	20.000	5.500
APR	5.000	4.000	10.500	4.500	18.000	6.500
MAY	8.000	8.000	17.500	7.500	21.000	8,500
JUN	10.000	9.000	14.500	11.500		_
JUL	13.000	14.000	17.000	16.000	24.000	16.000
AUG	15.000	17.000	17.500	18.500	21.000	19.500
SEP	17.000	21.500	18.500	19.500	24.000	20.000
OCT	15.000	14.500	17.500	15.000	18.500	16.000
NOV	12.000	11.000	16.500	12.000	22.000	14.500
DEC	30.000	4.000	13.000	6.000	19.500	9.500
LD TURBI	DITY (FTU)	DET'N LI	 MIT = N/A	GUIDELINE =	1.0 (A1)
JAN	58.000	.070	.130	.130	.120	.110
FEB	46.000	.100	.120	.110	.080	.130
MAR	5.000	.120	.100	.090	.130	.150
APR	132.000	.230	.110	.130	.130	.080
MAY	16.000	.100	.090	.080	.100	.100
JUN	5.000	.110	.160	.130		. 100
JUL	40.100	. 120	.120	.120	.110	
AUG	7.000	.090	. 150	.100		.110
SEP	116.000	.100	.140	.110	.120	.090
OCT	20.000	.090	.120	.090	.090	.110
NOV	15.600	.110	.180		.080	.100
DEC	135.000	.110		.130	.100	.110
200	133.000	.110	. 140	.190	.090	.200

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	CHEMIS	TRY (LAB)		•		
ALKALINIT	•		DET'N LI	MIT = .200	GUIDELINE =	30-500 (A4)
JAN	94.000	86.400	87.900	87.600	90.200	89.800
FEB	102.200	93.700	92.900	93.700	93.100	93.300
MAR	101.900	95.300	96.100	95.100	96.400	96.000
APR	106.000	95.100	96.300	95.300	93.500	93.600
HAY	100.800	94.300	93.600	94.000	96.100	94.700
JUN	98.300	90.000	91.400	91.600		
JUL	103.500	95.200	93.900	94.500	96.400	95.400
AUG	106.900	98.500	100.000	100.100	96.200	96.600
SEP	98.800	90.300	91.900	92.200	90.600	90.900
OCT	98.200	90.400	91.700	92.300	90.700	93.000
NOV	100.900	91.900	92.600	92.600	91.300	90.700
DEC	97.900	90.100	91.600	92.200	91.100	91.000
ALCIUM (MG/L)		DET'N LI	MIT = .100	GUIDELINE =	100 (F2)
JAN	35.000	35.000	32.400	34.200	35.400	33.800
FEB	35.600	36.600	36.600	36.000	36.000	35.600
MAR	37.200	37.400	37.000	37.400	37.800	37.600
APR	41.200	41.000	40.000	40.200	39.800	39.800
MAY	37.400	36.600	37.800	40.600	40.000	40.200
JUN	34.600	35.200	35.800	36.600		
JUL	40.400	39.800	39.200	38.600	40.200	40.400
AUG	38.200	37.800	37.400	38.400	37.600	38.000
SEP	34.800	36.800	39.800	39.200	36.000	35.400
OCT	35.400	35.800	35.800	35.400	36.800	37.400
NOV	35.400	36.200	37.000	36.400	34.800	35.200
DEC	36.000	40.900	40.800	40.400	40.200	40.000
YANIDE (1G/L)		DET'N LI	MIT = 0.001	GUIDELINE =	.200 (A1)
JAN	BDL	BDL	•	BDL	•	BDL
FEB	BDL	BDL	•	BDL	•	BDL
MAR	.003 <t< td=""><td>BDL</td><td>•</td><td>BDL</td><td></td><td>BDL</td></t<>	BDL	•	BDL		BDL
APR	BDL	BDL		BDL	•	BDL
MAY	BDL	BDL	•	BDL		BDL
JUN	BDL	BDL	•	BDL	•	
JUL	BDL	BDL	•	BOL		BDL
AUG	BDL	BDL	•	BOL	-	BDL
SEP	BDL	BDL	-	BOL	•	BDL
ОСТ	BDL	BDL	•	BOL	•	BDL
NOV	BDL	BDL	•	BDL	•	BDL
DEC	BDL	BDL	•	BDL	•	BOL
LORIDE (MG/L)		DET'N LI	MIT = .200	GUIDELINE =	250 (A3)
	11.100	12.300	12.100	12.100	12.700	12.500
JAN	11.100				16.100	12.500
JAN Feb	13.700	14.600	14.800	14.700	14.600	14.500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

	RAW	TREATED	SITE 1	SITE 2		
			STANDING	FREE FLOW	STANDING	FREE FLOW
400	14.500	45 700	1/ 000	14.900	14.900	14.800
APR May	13.600	15.300 15.000	14.900 15.200	14.900	15.200	15.000
JUN	13.700	15.200	15.300	15.300	13.200	13.000
JUL	13.600	15.200	15.100	15.100	15.600	15.500
AUG	13.700	15.400	15.500	15.300	15.600	15.500
SEP	14.100	15.200	15.300	15.200	15.600	15.600
OCT	13.700	15.100	15.100	15.100	15.200	15,100
NOV	14.100	15.100	14.700	14.700	14.900	14.800
DEC	12.800	13.300	14.000	14.100	13.700	13.600
COLOUR (HZU)		DET'N L	LIMIT = .5 GUIDELINE = 5.0 (A3)		
JAN	1.000 <t< td=""><td>.500 <7</td><td>.500 <</td><td>T 1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<>	.500 <7	.500 <	T 1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
FEB	BDL	.500 <7	BDL	BDL	.500 <t< td=""><td>BDL</td></t<>	BDL
MAR	2.500	1.500 <t< td=""><td>1.000 <</td><td>T 1.000 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<></td></t<>	1.000 <	T 1.000 <t< td=""><td>1.500 <t< td=""><td></td></t<></td></t<>	1.500 <t< td=""><td></td></t<>	
APR	BDL	.500 <t< td=""><td>.500 <</td><td>T .500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""></t<></td></t<></td></t<></td></t<>	.500 <	T .500 <t< td=""><td>.500 <t< td=""><td>.500 <t< td=""></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <t< td=""></t<></td></t<>	.500 <t< td=""></t<>
MAY	1.500 <t< td=""><td>.500 <7</td><td>.500 <</td><td>T 1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<></td></t<>	.500 <7	.500 <	T 1.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<></td></t<>	1.000 <t< td=""><td>1.000 <t< td=""></t<></td></t<>	1.000 <t< td=""></t<>
JUN	2.000 <t< td=""><td>1.000 <t< td=""><td>1.000 <</td><td></td><td>•</td><td>•</td></t<></td></t<>	1.000 <t< td=""><td>1.000 <</td><td></td><td>•</td><td>•</td></t<>	1.000 <		•	•
JUL	.500 <t< td=""><td>.500 <7</td><td>1.000 <</td><td></td><td>1.500 <t< td=""><td></td></t<></td></t<>	.500 <7	1.000 <		1.500 <t< td=""><td></td></t<>	
AUG	2.000 <t< td=""><td>.500 <t< td=""><td>1.000 <</td><td></td><td>.500 <t< td=""><td></td></t<></td></t<></td></t<>	.500 <t< td=""><td>1.000 <</td><td></td><td>.500 <t< td=""><td></td></t<></td></t<>	1.000 <		.500 <t< td=""><td></td></t<>	
SEP	BDL	.500 <t< td=""><td>.500 <</td><td></td><td>1.000 <t< td=""><td></td></t<></td></t<>	.500 <		1.000 <t< td=""><td></td></t<>	
OCT	2.000 <t< td=""><td>.500 <t< td=""><td>.500 <</td><td></td><td>1.000 <t< td=""><td></td></t<></td></t<></td></t<>	.500 <t< td=""><td>.500 <</td><td></td><td>1.000 <t< td=""><td></td></t<></td></t<>	.500 <		1.000 <t< td=""><td></td></t<>	
NOV	.500	.500 <7	.500 <		.500 <t< td=""><td></td></t<>	
DEC	2.000 <7	BDL	BDL	BDL	BDL	BDL
CONDUCTIVITY	CONDUCTIVITY (UMHO/CM)		DET'N LIMIT = 1		GUIDELINE = 400 (F2)	
JAN	255	270	265	266	278	276
FEB	279	290	291	29 1	287	287
MAR	288	293	295	293	298	296
APR	294	309	308	307	300	300
MAY	294	300	294	294	294	295
JUN	280	286	287	288	•	•
JUL	290	296	295	295	298	299
AUG	293	298	299	298	294	294
SEP	274	286	296	294	283	285
OCT	280	288	289	288	289	294
NOV	274	291	294	294	285	284
DEC	265	284	288	290	285	285
FLUORIDE (MG/L)			DET'N LIMIT = .01		GUIDELINE = 2.400 (A1)	
JAN	.140	1.160	.820	1.020	1.160	1.120
FEB	. 100	1.280	1.240	.860 RRV	1.160	1.160
MAR	.180	1.280	1.260	1.220	1.240	1.180
APR	. 140	1.300	1.160	1.340	1.220	1.180
MAY	. 100	1.240	1.180	1.220	1.280	1.220
JUN	.120	1.520	1.180	1.220	•	•
JUL	.160	1.140	1.880	1.640	1.320	1.280
AUG	.120	1.240	1.020	.940	1.200	1.220

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
CED	.180	1.460	1.140	1.840	1.440	1.440
SEP	.120	1.600	1.300	.880	1.360	1.380
OCT		1.220	1.100	1.180	1.280	1.200
DEC	.120 .120	.120	.080	.120	.320	.280
ARDNESS	(MG/L)		DET'N LI	MIT = .500	GUIDELINE =	80-100 (A4)
JAN	120,000	120.000	114.000	120.000	123.000	119.000
FEB	124.000	127.000	128.000	125.000	126.000	125.000
MAR	128.000	129.000	128.000	128.000	129.000	129.000
APR	139.000	138.000	136.000	136.000	135.000	135.000
MAY	131.000	128.000	131.000	138.000	136.000	136.000
JUN	122.000	124.000	125.000	128.000		
JUL	137.000	136.000	133.000	132.000	136.000	138.000
AUG	130.000	129.000	126.000	131.000	127.000	129.000
SEP	121.000	126.000	135.000	133.000	124.000	123.000
OCT	124.000	124.000	124.000	124.000	128,000	128.000
NOV	124.000	126.000	128.000	126.000	122.000	123.000
DEC	124.000	136.500	138.000	137.000	136.000	135.000
ONCAL (D	MNSLESS)		DET N LI	MIT = N/A	GUIDELINE =	N/A
JAN	4.562	4.820	.537	3.858	2.982	1.058
FEB	1.024	1.154	2.455	.552	1.564	.159
MAR	.175	1.954	.999	1.917	1.445	1.205
APR	5.986	6.806	5.126	7.004	7.281	7.776
HAY	3.019	2.923	5.019	8.580	6.638	9.504
JUN	1.823	1.720	2.353	5.182		
JUL	5.903	6.337	7.165	5.690	5.504	7.652
AUG	1.670	.302	4.110	.783	.990	.364
SEP	3.416	1.243	3.557	2.748	.300	.058
OCT	.431	2.547	.591	.130	3.208	2.360
NOV	2.368	.718	.423	2.157	1.578	.934
DEC	.739	8.115	5.734	4.409	5.198	4.979
ANGELIER	S INDEX (DMNSLE	ss)	DET'N LI	MIT = N/A	GUIDELINE = N/A	
JAN	.306	.113	.139	.261	.334	.293
FEB	.400	.130	.096	.083	.101	.137
MAR	.384	.246	.114	.155	.223	.180
APR	.493	.429	.474	.392	.372	.392
MAY	.500	.429	.432	.515	.538	.503
JUN	.390	.287	.201	.271		.,,,,
JUL	.166	.051	.169	.155	.170	.147
AUG	.535	.503	.494	.516	.472	.468
SEP	.397	.348	.346	.311	.291	.254
OCT	.470	.346	.351	.370	.299	.405
NOV	.384	.276	.298		.289	.371
				.401		.368
DEC	.412	.374	.458	.456	.491	.36

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
MAGNESIUM (M	IG/L)		DET'N LI	MIT = .050	GUIDELINE =	30 (F2)
JAN	8.000	8.000	8.100	8.300	8.400	8.400
FEB	8.700	8.600	8.800	8.600	8.700	8.800
MAR	8.600	8.600	8.500	8.400	8.500	8.500
APR	8.800	8.700	8.800	8.700	8.500	8.700
MAY	9.000	8.800	9.000	9.000	8.700	8.800
JUN	8.600	8.700	8.600	8.900		
JUL	8.900	8.800	8.600	8.700	8.700	8.900
AUG	8.300	8.300	8.000	8.500	8.100	8.100
SEP	8.300	8.200	8.600	8.500	8.300	8.600
OCT	8.500	8.500	8.400	8.600	8.600	8.400
NOV	8.600	8.600	8.600	8.600	8.500	8.500
DEC	8.390	8.300	8.700	8.700	8.500	8.600
SODIUM (MG/L)	•	DET'N LI	MIT = .200	GUIDELINE =	200 (C3)
JAN	6.400	7.200	6.400	6.600	7.200	7.200
FEB	7.600	7.800	8.200	7.800	7.800	7.800
MAR	8.000	8.200	8.200	8.600	8.600	8.400
APR	8.800	9.200	8.800	9.200	8.800	8.800
MAY	7.800	8.200	8.200	8.400	8.200	8.600
JUN	7.800	8.200	8.600	9.000		
JUL	8.000	8.600	8.800	8.600	8.400	8.600
AUG	8.000	8.400	7.800	7.800	8.000	8.000
SEP	8.000	8.400	8.000	8.000	8.000	8.200
OCT	8.000	8.600	8.200	8.000	8.400	8.400
NOV	7.800	8.000	8.200	8.200	8.400	8.100
DEC	7.400	7.600	7.000	7.000	7.000	6.800
MMONIUM TOT	AL (MG/L)	DET'N LI	MIT = 0.002	GUIDELINE =	.05 (F2)
JAN	.004 <t< td=""><td>.006 <7</td><td>.010</td><td>.008</td><td><t .006="" <t<="" td=""><td>.008 <</td></t></td></t<>	.006 <7	.010	.008	<t .006="" <t<="" td=""><td>.008 <</td></t>	.008 <
FEB	.008 <t< td=""><td>.010</td><td>.010</td><td>.010</td><td>.008 <1</td><td>.008 <</td></t<>	.010	.010	.010	.008 <1	.008 <
MAR	.004 <t< td=""><td>BDL</td><td>.002 <t< td=""><td>BDL</td><td>.010</td><td>BDL</td></t<></td></t<>	BDL	.002 <t< td=""><td>BDL</td><td>.010</td><td>BDL</td></t<>	BDL	.010	BDL
APR	BDL	.004 <t< td=""><td>.006 <t< td=""><td>.006</td><td><7 .002 <7</td><td>.004 <</td></t<></td></t<>	.006 <t< td=""><td>.006</td><td><7 .002 <7</td><td>.004 <</td></t<>	.006	<7 .002 <7	.004 <
MAY	.002 <t< td=""><td>.002 <t< td=""><td>.004 <t< td=""><td>.006</td><td><t bdl<="" td=""><td>BDL</td></t></td></t<></td></t<></td></t<>	.002 <t< td=""><td>.004 <t< td=""><td>.006</td><td><t bdl<="" td=""><td>BDL</td></t></td></t<></td></t<>	.004 <t< td=""><td>.006</td><td><t bdl<="" td=""><td>BDL</td></t></td></t<>	.006	<t bdl<="" td=""><td>BDL</td></t>	BDL
JUN	.020	.002 <t< td=""><td>BOL</td><td>BOL</td><td></td><td></td></t<>	BOL	BOL		
JUL	.002 <7	.008 <t< td=""><td>.008 <7</td><td>.006</td><td></td><td></td></t<>	.008 <7	.006		
AUG	.004 <t< td=""><td>.002 <t< td=""><td>BOL</td><td>BOL</td><td>.002 <t< td=""><td></td></t<></td></t<></td></t<>	.002 <t< td=""><td>BOL</td><td>BOL</td><td>.002 <t< td=""><td></td></t<></td></t<>	BOL	BOL	.002 <t< td=""><td></td></t<>	
SEP	BOL	BDL	.002 <t< td=""><td>.002</td><td><t bdl<="" td=""><td>.002 <</td></t></td></t<>	.002	<t bdl<="" td=""><td>.002 <</td></t>	.002 <
OCT	BOL	BDL	.002 <7		BDL	.004 <
NOV	BOL	BOL	.002 <t< td=""><td>BDL</td><td>BDL</td><td>.004 <</td></t<>	BDL	BDL	.004 <
0EC	BOL	8DL	BOL	BDL	BDL	BOL
ITRITE (MG/L	.)		OET'N LII	HIT = 0.001	GUIDELINE =	1.000 (A1)
JAN	.005	.002 <7	.004 <т	.002	<t .002="" <t<="" td=""><td>.002 <1</td></t>	.002 <1
FEB	.008	.001 <t< td=""><td>.002 <t< td=""><td>.002</td><td></td><td></td></t<></td></t<>	.002 <t< td=""><td>.002</td><td></td><td></td></t<>	.002		
	007 -7	DD1				
MAR	.003 <t< td=""><td>BOL</td><td>BDL</td><td>BOL</td><td>.001 <7</td><td>BDL</td></t<>	BOL	BDL	BOL	.001 <7	BDL

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW	TREATED	SITE 1		SITE 2	
*	• • • • • • • • • • • • • • • • • • • •		STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	,003 <t< td=""><td>BOL</td><td>.003 <1</td><td>.003 <t< td=""><td>.003 <t< td=""><td>.003 <1</td></t<></td></t<></td></t<>	BOL	.003 <1	.003 <t< td=""><td>.003 <t< td=""><td>.003 <1</td></t<></td></t<>	.003 <t< td=""><td>.003 <1</td></t<>	.003 <1
JUN	.007	.001 <7	.003 <t< td=""><td></td><td></td><td>,005</td></t<>			,005
JUL	.002 <t< td=""><td>.001 <7</td><td>.001 <t< td=""><td></td><td>.001 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	.001 <7	.001 <t< td=""><td></td><td>.001 <t< td=""><td>BDL</td></t<></td></t<>		.001 <t< td=""><td>BDL</td></t<>	BDL
AUG	.008	BDL	BDL	BOL	BDL	BOL
SEP	.015	.003 <t< td=""><td>.002 <1</td><td></td><td>.003 <t< td=""><td></td></t<></td></t<>	.002 <1		.003 <t< td=""><td></td></t<>	
OCT	.001 <t< td=""><td>.001 <7</td><td>.001 <t< td=""><td></td><td>BDL</td><td>BDL</td></t<></td></t<>	.001 <7	.001 <t< td=""><td></td><td>BDL</td><td>BDL</td></t<>		BDL	BDL
NOV	.002 <t< td=""><td>BDL</td><td>.001 <t< td=""><td></td><td>.001 <t< td=""><td></td></t<></td></t<></td></t<>	BDL	.001 <t< td=""><td></td><td>.001 <t< td=""><td></td></t<></td></t<>		.001 <t< td=""><td></td></t<>	
DEC	.022	.003 <t< td=""><td>.001 <t< td=""><td></td><td>.001 <t< td=""><td></td></t<></td></t<></td></t<>	.001 <t< td=""><td></td><td>.001 <t< td=""><td></td></t<></td></t<>		.001 <t< td=""><td></td></t<>	
TOTAL NITE	RATES (MG/L)	DET'N LI	MIT = .020	GUIDELINE =	10.000 (A1)
JAN	.190	.210	.200	.200	.195	.210
FEB	.270	.255	.230	.220	. 195	.200
MAR	.195	.200	.190	. 185	.215	.210
APR	.545	.450	.380	.365	.285	.295
HAY	.325	.310	.340	.310	.285	.290
JUN	.260	.245	. 195	.170		
JUL	.370	.255	.250	.245	.255	.255
AUG	.220	.210	.210	.205	. 185	.190
SEP	.185	.185	.190	.190	.180	.185
OCT	.200	.185	.185	.180	.185	.190
NOV	.140	.125	. 135	.160	.120	.125
DEC	.215	.210	.205	.200	.195	.200
NITROGEN 1	TOT KJELD (MG/L)	DET'N LI	MIT = .020	GUIDELINE =	N/A
JAN	.425	.120	.140	.140	.130	.140
FEB	.425	.140	.150	.150	.140	.110
MAR	.260	. 190	.180	.170	.210	.190
APR	.510	.180	.210	.170	.170	.170
MAY	.420	.200	.160	.150	.160	.150
JUN	.280	.150	.180	.190	•	•
JUL	.600	.210	.230	.250	.300	.170
AUG	.270	. 160	.170	.160	. 160	.150
SEP	.540	. 160	. 160	.150	.160	.150
OCT	.270	.210	.170	.210	.180	.170
NOV	.450	. 140	. 160	.190	.170	. 150
DEC	.320	.210	. 190	.200	.210	.180
PH (DMNSLE	SS)		DET'N LI	MIT = N/A	GUIDELINE =	6.5-8.5(A4)
JAN	8.210	8.060	8.110	8.210	8.260	8.240
FEB	8.270	8.030	8.000	7.990	8.010	8.050
MAR	8.240	8.130	8.000	8.040	8.100	8.060
APR	8.290	8.280	8.330	8.250	8.240	8.260
MAY	8.360	8.330	8.320	8.370	8.390	8.360
JUN	8.290	8.220	8.120	8.180	100	
JUL	7.980	7.910	8.040	8.030	8.020	8.000
ALIC	8.360	8.370	8.360	8.370	8.350	8.340
AUG	0.000					

TABLE 5

HATER TREATMENT PLANT DISTRIBUTION SYSTEM

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
OCT	8.360	8.270	8.270	8.290	8.210	8.300
NOV	8.260	8.190	8.200	8.310	8.220	8.300
DEC	8.290	8.240	8.320	8.320	8.360	8.240
PHOSPHORUS FIL REACT (MG/L)		DET'N LI	DET'N LIMIT = .0005		N/A	
JAN	.005	BDL	•	•		•
FEB	.009	BDL	•	•	•	•
MAR	.001 <t< td=""><td>BDL</td><td>•</td><td>•</td><td>•</td><td></td></t<>	BDL	•	•	•	
APR	.028	.001 <t< td=""><td></td><td>•</td><td>•</td><td></td></t<>		•	•	
MAY	.003	BDL	•		•	
JUN	.001 <t< td=""><td>.000 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<></td></t<>	.000 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
JUL	.005	.001 <t< td=""><td>•</td><td>•</td><td></td><td>•</td></t<>	•	•		•
AUG	.004	BDL		•	•	•
SEP	.029	.002 <7	•	•		•
OCT	.002 <t< td=""><td>BOL</td><td>•</td><td>•</td><td>•</td><td></td></t<>	BOL	•	•	•	
NOV	BOL	BDL	•	•	•	
DEC	.044	.001 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
HOSPHORUS	TOTAL (MG/L)	DET'N LI	MIT = .002	GUIDELINE =	.40 (F2)
JAN	.100	.002 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
FEB	.128	.003 <1	•	•	•	
MAR	.022	.004 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
APR	.205	.004 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
MAY	.068	.006 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
JUN	.017	.013	•	•	•	
JUL	.188	.004 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
AUG	.021	.003 <t< td=""><td>•</td><td>•</td><td>•</td><td></td></t<>	•	•	•	
SEP	.240	.003 <7	•	•	•	
OCT	.033	.003 <1	•	•	•	
NOV	. 170	.003 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•
DEC	.117	BDL	•	•	•	•
ULPHATE (MG/L)		DET'N LI	MIT = .200	GUIDELINE =	500. (A3)
JAN	17.280	24.200	22.230	22.580	24.720	24.000
FEB	19.340	25.830	26.270	26.710	25.030	26.280
MAR	22.790	25.930	25.320	26.280	26.120	26.210
APR	19.990	28.570	27.770	27.170	26.390	26.500
MAY	20.970	23.680	24.770	26.980	24.290	23.840
JUN	21.820	25.700	25.410	25.420		
JUL	21.360	26.460	25.080	25.040	25.980	25.840
AUG	21.420	25.150	25.400	25.420	26.020	25.850
SEP	22.810	28.480	31.420	30.600	26.610	26.810
OCT	22.130	26.010	26.150	25.970	27.040	26.700
NOV	21.820	29.290	31.070	31.910	28.370	28.530
DEC	21.780	30.400	31.150	31.300	30.650	30.700

TABLE 5 DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

.630

DISTRIBUTION SYSTEM

.330

TREATED SITE 1 SITE 2 RAW STANDING FREE FLOW STANDING FREE FLOW370 78.000 .350 .430 .420 JAN .320 94.000 .230 <T .150 <T .270 .340 .230 <T FEB MAR .250 .300 .300 .300 5.500 .350 .490 .340 .350 .520 .370 APR 200.000 > .520 .370 .400 .590 MAY 26.000 .780 .270 JUN 1.900 .220 .370 .200 <T .190 <T JUL 108.000 . 290 .210 <T .240 <T .910 .920 .530 AUG 8.100 .570 .550 .110 <T .130 <7 .450 .090 <T SEP 200,000 > .110 <7 .510 .450 OCT 22.000 .670 .470 .360 .270 .400 .360 NOV 160.000 .510 .370 .680

.470

WATER TREATMENT PLANT

.440

DEC

200.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

RAW TREATED SITE 1

DISTRIBUTION SYSTEM

SITE 2

	1018	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4.1.2 .		J.1.L L	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	METALS	· · · · · · · · · · · · · · · · · · ·		•••••••••••		
SILVER ((UG/L)			DET'N LIMIT = .020	GUIDELINE =	50. (A1)
JAN	BOL	BDL	BDL	.030 <t< td=""><td>.030 <7</td><td>BDL</td></t<>	.030 <7	BDL
FEB	BDL	BDL	BDL	BDL	BDL	BDL
MAR	.120 <t< td=""><td>.070 <7</td><td>.040 <t< td=""><td>.050 <t< td=""><td>.050 <t< td=""><td>.080 <</td></t<></td></t<></td></t<></td></t<>	.070 <7	.040 <t< td=""><td>.050 <t< td=""><td>.050 <t< td=""><td>.080 <</td></t<></td></t<></td></t<>	.050 <t< td=""><td>.050 <t< td=""><td>.080 <</td></t<></td></t<>	.050 <t< td=""><td>.080 <</td></t<>	.080 <
APR	.090 <t< td=""><td>.080 <t< td=""><td>.100 <t< td=""><td>.090 <t< td=""><td>.140 <t< td=""><td>.050 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.080 <t< td=""><td>.100 <t< td=""><td>.090 <t< td=""><td>.140 <t< td=""><td>.050 <</td></t<></td></t<></td></t<></td></t<>	.100 <t< td=""><td>.090 <t< td=""><td>.140 <t< td=""><td>.050 <</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.140 <t< td=""><td>.050 <</td></t<></td></t<>	.140 <t< td=""><td>.050 <</td></t<>	.050 <
MAY	BDL	BDL	BOL	BDL	BDL	BDL
JUN	BDL	ISH	BDL	BDL	•	
JUL	BDL	BDL	BDL	BDL	BDL	BDL
AUG	BDL	BDL	.050 <t< td=""><td>.040 <t< td=""><td>.030 <t< td=""><td>BOL</td></t<></td></t<></td></t<>	.040 <t< td=""><td>.030 <t< td=""><td>BOL</td></t<></td></t<>	.030 <t< td=""><td>BOL</td></t<>	BOL
SEP	.040 <t< td=""><td>.030 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td><td>BOL</td></t<></td></t<>	.030 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td><td>BOL</td></t<>	BDL	BDL	BDL	BOL
OCT	BDL	BOL	BOL	BDL	BDL	BDL
NOV	.030 <t< td=""><td>BOL</td><td>.250 <t< td=""><td>BOL</td><td>BDL</td><td>BDL</td></t<></td></t<>	BOL	.250 <t< td=""><td>BOL</td><td>BDL</td><td>BDL</td></t<>	BOL	BDL	BDL
DEC	BDL	BDL	BDL	BOL	BDL	BOL
LUM I NUM	(UG/L)			DET'N LIMIT = .050	GUIDELINE =	100.(A4)
JAN	290.000	31.320	37.120	42.920	47.560	34.800
FEB	382.800	47.560	45.240	38.280	52.200	41.760
MAR	3.944	75.400	73.080	67.280	70.760	56.840
APR	464.000	53.360	52.200	53.360	56.840	38.280
HAY	162.400	104.400	91.640	75.400	96.280	82.360
JUN	68.000	I SM	81.000	85.000	•	
JUL	380.000	76.000	85.000	82.000	79.000	62.000
AUG	140.000	71.000	79.000	65.000	98.000	100.000
SEP	360.000	200.000	220.000	230.000	200.000	190.000
OCT	190.000	120.000	120.000	120.000	90.000	90.000
NOV	590.000	91.000	86.000	80.000	110.000	95.000
DEC	620.000	45.000	46.000	46.000	57.000	47.000
RSENIC	(UG/L)		************	DET'N LIMIT = 0.050	GUIDELINE = !	50.0 (A1)
JAN	1.400	.250 <t< td=""><td>.210 <t< td=""><td>.330 <t< td=""><td>.250 <t< td=""><td>.240 <</td></t<></td></t<></td></t<></td></t<>	.210 <t< td=""><td>.330 <t< td=""><td>.250 <t< td=""><td>.240 <</td></t<></td></t<></td></t<>	.330 <t< td=""><td>.250 <t< td=""><td>.240 <</td></t<></td></t<>	.250 <t< td=""><td>.240 <</td></t<>	.240 <
FEB	1.300	.140 <t< td=""><td>.190 <t< td=""><td>.180 <t< td=""><td>.200 <t< td=""><td>BDL</td></t<></td></t<></td></t<></td></t<>	.190 <t< td=""><td>.180 <t< td=""><td>.200 <t< td=""><td>BDL</td></t<></td></t<></td></t<>	.180 <t< td=""><td>.200 <t< td=""><td>BDL</td></t<></td></t<>	.200 <t< td=""><td>BDL</td></t<>	BDL
MAR	1.100	.910 <t< td=""><td>1.100</td><td>1.000 <t< td=""><td>.770 <1</td><td>1.100</td></t<></td></t<>	1.100	1.000 <t< td=""><td>.770 <1</td><td>1.100</td></t<>	.770 <1	1.100
APR	1.200	.490 <t< td=""><td>.850 <t< td=""><td>.530 <t< td=""><td>.530 <t< td=""><td>.550 <</td></t<></td></t<></td></t<></td></t<>	.850 <t< td=""><td>.530 <t< td=""><td>.530 <t< td=""><td>.550 <</td></t<></td></t<></td></t<>	.530 <t< td=""><td>.530 <t< td=""><td>.550 <</td></t<></td></t<>	.530 <t< td=""><td>.550 <</td></t<>	.550 <
MAY	1.800	1.100	.840 <t< td=""><td>.760 <t< td=""><td>.520 <t< td=""><td>.680 <</td></t<></td></t<></td></t<>	.760 <t< td=""><td>.520 <t< td=""><td>.680 <</td></t<></td></t<>	.520 <t< td=""><td>.680 <</td></t<>	.680 <
JUN	1.100	ISM	.560 <t< td=""><td>.660 <t< td=""><td>•</td><td></td></t<></td></t<>	.660 <t< td=""><td>•</td><td></td></t<>	•	
JUL	1.600	.760 <t< td=""><td>.730 <t< td=""><td>.540 <t< td=""><td>.660 <t< td=""><td>.440 <</td></t<></td></t<></td></t<></td></t<>	.730 <t< td=""><td>.540 <t< td=""><td>.660 <t< td=""><td>.440 <</td></t<></td></t<></td></t<>	.540 <t< td=""><td>.660 <t< td=""><td>.440 <</td></t<></td></t<>	.660 <t< td=""><td>.440 <</td></t<>	.440 <
AUG	1.300	.820 <t< td=""><td>.660 <t< td=""><td>.710 <t< td=""><td>.880 <t< td=""><td>.890 <</td></t<></td></t<></td></t<></td></t<>	.660 <t< td=""><td>.710 <t< td=""><td>.880 <t< td=""><td>.890 <</td></t<></td></t<></td></t<>	.710 <t< td=""><td>.880 <t< td=""><td>.890 <</td></t<></td></t<>	.880 <t< td=""><td>.890 <</td></t<>	.890 <
SEP	2.000	.980 <t< td=""><td>.990 <t< td=""><td>1.200</td><td>.910 <t< td=""><td>1.000 <</td></t<></td></t<></td></t<>	.990 <t< td=""><td>1.200</td><td>.910 <t< td=""><td>1.000 <</td></t<></td></t<>	1.200	.910 <t< td=""><td>1.000 <</td></t<>	1.000 <
OCT	.800 <t< td=""><td>.430 <t< td=""><td>.350 <t< td=""><td>.320 <t< td=""><td>.100 <t< td=""><td>.240 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.430 <t< td=""><td>.350 <t< td=""><td>.320 <t< td=""><td>.100 <t< td=""><td>.240 <</td></t<></td></t<></td></t<></td></t<>	.350 <t< td=""><td>.320 <t< td=""><td>.100 <t< td=""><td>.240 <</td></t<></td></t<></td></t<>	.320 <t< td=""><td>.100 <t< td=""><td>.240 <</td></t<></td></t<>	.100 <t< td=""><td>.240 <</td></t<>	.240 <
NOV	1.000 <t< td=""><td>1.300</td><td>.470 <t< td=""><td>.370 <1</td><td>.370 <t< td=""><td>.370 <</td></t<></td></t<></td></t<>	1.300	.470 <t< td=""><td>.370 <1</td><td>.370 <t< td=""><td>.370 <</td></t<></td></t<>	.370 <1	.370 <t< td=""><td>.370 <</td></t<>	.370 <
DEC	1.200	.100 <t< td=""><td>.250 <t< td=""><td>.180 <t< td=""><td>.200 <t< td=""><td>.330 <</td></t<></td></t<></td></t<></td></t<>	.250 <t< td=""><td>.180 <t< td=""><td>.200 <t< td=""><td>.330 <</td></t<></td></t<></td></t<>	.180 <t< td=""><td>.200 <t< td=""><td>.330 <</td></t<></td></t<>	.200 <t< td=""><td>.330 <</td></t<>	.330 <
ARIUM (L	JG/L)		•••••••	DET'N LIMIT = 0.020	GUIDELINE = '	1000. (A1)
JAN	23.000	18.000	18.800	18.000	20,000	20 000
JAN FEB	23.000 29.000	18.000 22.000	18.800 22.000	18.000 21.000	20.000 22.000	20.000 21.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW		TREATED		SITE 1		SITE 2		
					STANDING	FREE FLOW	STANDING	FREE FLOW	
••••••	,						•	•	
APR	33.000		24.000		25.000	25.000	23.000	22.00	00
MAY	26.000		23.000		20.000	20.000	21.000	20.00	00
JUN	21.000		ISH		21.000	21.000			
JUL	29.000		24.000		25.000	23.000	24.000	23.00	00
AUG	24.000		24.000		24.000	23.000	24.000	23.00	00
SEP	29.000		24.000		33.000	32.000	26.000	26.00	00
OCT	24.000		24.000		25.000	24.000	24.000	23.00	00
NOV	33.000		22.000		23.000	23.000	22.000	21.00	00
DEC	33.000		22.000		23.000	22.000	22.000	22.00	00
BORON (UG/L	.)	•••••				DET'N LIMIT = 0.	.200 GUIDELINE	= 5000. (A1)	
MAL	35.000		21.000		19.000 <t< td=""><td>18.000 <t< td=""><td>19.000</td><td><t 19.00<="" td=""><td>T> 00</td></t></td></t<></td></t<>	18.000 <t< td=""><td>19.000</td><td><t 19.00<="" td=""><td>T> 00</td></t></td></t<>	19.000	<t 19.00<="" td=""><td>T> 00</td></t>	T> 00
FEB	29.000		22.000		30.000	27.000	23.000	21.00	00
MAR	24.000		42.000		73.000	54.000	57.000	73.00	00
APR	28.000		74.000		220.000	80.000	43.000	40.00	00
MAY	170.000		73.000		34.000	130.000	24.000	44.00	00
JUN	21.000		!SM		23.000	23.000			
JUL	35.000		26.000		44.000	23.000	28.000	24.00	00
AUG	71.000		27.000		25.000	31.000	22.000	23.00	00
SEP	50.000		36.000		45.000	46.000	45.000	46.00	00
OCT	23.000		29.000		28.000	25.000	22.000	21.00	00
NOV	20.000	< T	21.000		23.000	20.000 <t< td=""><td>21.000</td><td>21.00</td><td>00</td></t<>	21.000	21.00	00
DEC	20.000	<t< td=""><td>21.000</td><td></td><td>25.000</td><td>23.000</td><td>24.000</td><td>, 22.00</td><td>00</td></t<>	21.000		25.000	23.000	24.000	, 22.00	00
BERYLLIUM (UG/L)		••••		DET'N LIMIT = 0.	.010 GUIDELINE	= N/A	
KAL	.020	< T	.030	< T	BDL	.040 <t< td=""><td>.020</td><td><t b1<="" td=""><td>)L</td></t></td></t<>	.020	<t b1<="" td=""><td>)L</td></t>)L
FEB	.090	<1	BDL		.030 <t< td=""><td>BDL</td><td>BDL</td><td></td><td>7> 0</td></t<>	BDL	BDL		7> 0
MAR	BDL		.140	< T	.070 <t< td=""><td>.060 <t< td=""><td>.110</td><td></td><td>10 <t< td=""></t<></td></t<></td></t<>	.060 <t< td=""><td>.110</td><td></td><td>10 <t< td=""></t<></td></t<>	.110		10 <t< td=""></t<>
APR	.140	<t< td=""><td>.120</td><td></td><td>.260 <t< td=""><td>.150 <t< td=""><td>BDL</td><td>BU</td><td></td></t<></td></t<></td></t<>	.120		.260 <t< td=""><td>.150 <t< td=""><td>BDL</td><td>BU</td><td></td></t<></td></t<>	.150 <t< td=""><td>BDL</td><td>BU</td><td></td></t<>	BDL	BU	
MAY	.350	<t< td=""><td>.080</td><td></td><td>.090 <t< td=""><td>.120 <t< td=""><td>.100</td><td></td><td>30 <t< td=""></t<></td></t<></td></t<></td></t<>	.080		.090 <t< td=""><td>.120 <t< td=""><td>.100</td><td></td><td>30 <t< td=""></t<></td></t<></td></t<>	.120 <t< td=""><td>.100</td><td></td><td>30 <t< td=""></t<></td></t<>	.100		30 <t< td=""></t<>
JUN	.070		I SM		.030 <t< td=""><td>.030 <t< td=""><td></td><td></td><td></td></t<></td></t<>	.030 <t< td=""><td></td><td></td><td></td></t<>			
JUL	.170		.020	<t .<="" td=""><td>.060 <t< td=""><td>BDL</td><td>BDL</td><td>в</td><td></td></t<></td></t>	.060 <t< td=""><td>BDL</td><td>BDL</td><td>в</td><td></td></t<>	BDL	BDL	в	
AUG	.120		.060		BDL	.090 <t< td=""><td>.020</td><td></td><td>50 <t< td=""></t<></td></t<>	.020		50 <t< td=""></t<>
SEP	.130		.120		.080 <t< td=""><td>BDL</td><td>.110</td><td></td><td></td></t<>	BDL	.110		
OCT	.020		.030		.020 <7	BDL	BOL	BI	
NOV	.090		BDL		BOL	BDL	BDL	BC	
DEC	.020		BDL		BDL	BOL	BDL	BI	
CADMIUM (UG	/L)					DET'N LIMIT = 0.	.050 GUIDELINE	= 5.000 (A1)	• • • • • •
JAN	BDL		BDL		BDL	BDL	.070	<t be<="" td=""><td>)L</td></t>)L
FEB	.070		BDL		BDL	.070 <1	BDL	BI	
MAR	.150		.120	< T	BDL	BDL	BDL		
APR	.240		.120		.150 <7	.130 <t< td=""><td>.140</td><td></td><td>50 <t< td=""></t<></td></t<>	.140		50 <t< td=""></t<>
MAY	BDL		BOL	•	BDL	BDL	.100		
JUN	BDL		I SM		.100 <7	.090 <t< td=""><td>. 100</td><td></td><td></td></t<>	. 100		
JUL	.070	< T	BDL		.200 <t< td=""><td>.100 <t< td=""><td>.130</td><td></td><td>40 <т</td></t<></td></t<>	.100 <t< td=""><td>.130</td><td></td><td>40 <т</td></t<>	.130		40 <т
AUG	BDL	•	BDL		BDL	BDL	BDL		DL
	50.		DO L		BUL	BUL	BUL	Di.	-

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
SEP	BOL	BOL	BOL	BOL	BDL	BOL
OCT	BOL	BOL	BDL	BDL	BOL	BDL
NOV	BOL	BOL	BDL	BDL	BDL	BOL
DEC	BDL	BOL	BDL	BDL	BDL	BOL
COBALT (U	G/L)			DET'N LIMIT = 0.02	O GUIDELINE = I	N/A
JAN	.610 <t< td=""><td>.070 <</td><td>.110 <t< td=""><td>.120 <t< td=""><td>.130 <7</td><td>.120 <</td></t<></td></t<></td></t<>	.070 <	.110 <t< td=""><td>.120 <t< td=""><td>.130 <7</td><td>.120 <</td></t<></td></t<>	.120 <t< td=""><td>.130 <7</td><td>.120 <</td></t<>	.130 <7	.120 <
FEB	.790 <t< td=""><td>.040 <t< td=""><td>.050 <7</td><td>.030 <7</td><td>.040 <t< td=""><td>.060 <</td></t<></td></t<></td></t<>	.040 <t< td=""><td>.050 <7</td><td>.030 <7</td><td>.040 <t< td=""><td>.060 <</td></t<></td></t<>	.050 <7	.030 <7	.040 <t< td=""><td>.060 <</td></t<>	.060 <
MAR	.070 <t< td=""><td>.170 <t< td=""><td>.140 <t< td=""><td>.190 <t< td=""><td>.180 <t< td=""><td>.160 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.170 <t< td=""><td>.140 <t< td=""><td>.190 <t< td=""><td>.180 <t< td=""><td>.160 <</td></t<></td></t<></td></t<></td></t<>	.140 <t< td=""><td>.190 <t< td=""><td>.180 <t< td=""><td>.160 <</td></t<></td></t<></td></t<>	.190 <t< td=""><td>.180 <t< td=""><td>.160 <</td></t<></td></t<>	.180 <t< td=""><td>.160 <</td></t<>	.160 <
APR	1.000 <t< td=""><td>.090 <t< td=""><td>.090 <t< td=""><td>.060 <t< td=""><td>.070 <t< td=""><td>.060 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.090 <t< td=""><td>.090 <t< td=""><td>.060 <t< td=""><td>.070 <t< td=""><td>.060 <</td></t<></td></t<></td></t<></td></t<>	.090 <t< td=""><td>.060 <t< td=""><td>.070 <t< td=""><td>.060 <</td></t<></td></t<></td></t<>	.060 <t< td=""><td>.070 <t< td=""><td>.060 <</td></t<></td></t<>	.070 <t< td=""><td>.060 <</td></t<>	.060 <
MAY	.530 <t< td=""><td>.270 <t< td=""><td>.120 <t< td=""><td>.110 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.270 <t< td=""><td>.120 <t< td=""><td>.110 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<>	.120 <t< td=""><td>.110 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<></td></t<>	.110 <t< td=""><td>.090 <t< td=""><td>.090 <</td></t<></td></t<>	.090 <t< td=""><td>.090 <</td></t<>	.090 <
JUN	.050 <t< td=""><td>I SM</td><td>BDL</td><td>BDL</td><td>•</td><td>•</td></t<>	I SM	BDL	BDL	•	•
JUL	.810 <t< td=""><td>.060 <t< td=""><td>.100 <t< td=""><td>.110 <t< td=""><td>.120 <t< td=""><td>.060 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.060 <t< td=""><td>.100 <t< td=""><td>.110 <t< td=""><td>.120 <t< td=""><td>.060 <</td></t<></td></t<></td></t<></td></t<>	.100 <t< td=""><td>.110 <t< td=""><td>.120 <t< td=""><td>.060 <</td></t<></td></t<></td></t<>	.110 <t< td=""><td>.120 <t< td=""><td>.060 <</td></t<></td></t<>	.120 <t< td=""><td>.060 <</td></t<>	.060 <
AUG	.200 <t< td=""><td>.070 <t< td=""><td>.120 <t< td=""><td>.110 <t< td=""><td>.110 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.070 <t< td=""><td>.120 <t< td=""><td>.110 <t< td=""><td>.110 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<>	.120 <t< td=""><td>.110 <t< td=""><td>.110 <t< td=""><td>.090 <</td></t<></td></t<></td></t<>	.110 <t< td=""><td>.110 <t< td=""><td>.090 <</td></t<></td></t<>	.110 <t< td=""><td>.090 <</td></t<>	.090 <
SEP	.730 <t< td=""><td>.090 <t< td=""><td>.050 <t< td=""><td>.080 <t< td=""><td>.110 <t< td=""><td>.110 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.090 <t< td=""><td>.050 <t< td=""><td>.080 <t< td=""><td>.110 <t< td=""><td>.110 <</td></t<></td></t<></td></t<></td></t<>	.050 <t< td=""><td>.080 <t< td=""><td>.110 <t< td=""><td>.110 <</td></t<></td></t<></td></t<>	.080 <t< td=""><td>.110 <t< td=""><td>.110 <</td></t<></td></t<>	.110 <t< td=""><td>.110 <</td></t<>	.110 <
OCT	.310 <t< td=""><td>.090 <t< td=""><td>.070 <t< td=""><td>.090 <t< td=""><td>.060 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<></td></t<>	.090 <t< td=""><td>.070 <t< td=""><td>.090 <t< td=""><td>.060 <t< td=""><td>.090 <</td></t<></td></t<></td></t<></td></t<>	.070 <t< td=""><td>.090 <t< td=""><td>.060 <t< td=""><td>.090 <</td></t<></td></t<></td></t<>	.090 <t< td=""><td>.060 <t< td=""><td>.090 <</td></t<></td></t<>	.060 <t< td=""><td>.090 <</td></t<>	.090 <
NOV	1.200	.060 <t< td=""><td>.030 <t< td=""><td>.030 <t< td=""><td>.030 <1</td><td>.030 <</td></t<></td></t<></td></t<>	.030 <t< td=""><td>.030 <t< td=""><td>.030 <1</td><td>.030 <</td></t<></td></t<>	.030 <t< td=""><td>.030 <1</td><td>.030 <</td></t<>	.030 <1	.030 <
DEC	1.300	.100 <t< td=""><td>.150 <ī</td><td>.050 <t< td=""><td>.050 <t< td=""><td>.040 <</td></t<></td></t<></td></t<>	.150 <ī	.050 <t< td=""><td>.050 <t< td=""><td>.040 <</td></t<></td></t<>	.050 <t< td=""><td>.040 <</td></t<>	.040 <
HROMIUM	(UG/L)			DET'N LIMIT = 0.10	O GUIDELINE =	50. (A1)
JAN	5.200	.560 <1	.530 <t< td=""><td>BDL</td><td>BDL</td><td>.150 <</td></t<>	BDL	BDL	.150 <
FEB	1.800	BDL	1.200	.670 <t< td=""><td>.150 <t< td=""><td>BOL</td></t<></td></t<>	.150 <t< td=""><td>BOL</td></t<>	BOL
MAR	.210 <t< td=""><td>2.800</td><td>6.700</td><td>4.300</td><td>5.300</td><td>6.900</td></t<>	2.800	6.700	4.300	5.300	6.900
					5.500	0.700
APR	.850 <t< td=""><td>2.200</td><td>8.800</td><td>2.600</td><td>.950 <t< td=""><td></td></t<></td></t<>	2.200	8.800	2.600	.950 <t< td=""><td></td></t<>	
			8.800 .770 <t< td=""><td></td><td></td><td>.730 <</td></t<>			.730 <
APR	.850 <t< td=""><td>2.200</td><td></td><td>2.600</td><td>.950 <t< td=""><td>.730 <</td></t<></td></t<>	2.200		2.600	.950 <t< td=""><td>.730 <</td></t<>	.730 <
APR May	.850 <t 9.000</t 	2.200 2.800	.770 <1	2.600 4.500	.950 <t .370 <t< td=""><td>.730 <</td></t<></t 	.730 <
APR MAY JUN	.850 <t 9.000 .240 <t< td=""><td>2.200 2.800 ISM</td><td>.770 <t .450 <t< td=""><td>2.600 4.500 .140 <t< td=""><td>.950 <t .370 <t< td=""><td>.730 < 1.100 .950 <</td></t<></t </td></t<></td></t<></t </td></t<></t 	2.200 2.800 ISM	.770 <t .450 <t< td=""><td>2.600 4.500 .140 <t< td=""><td>.950 <t .370 <t< td=""><td>.730 < 1.100 .950 <</td></t<></t </td></t<></td></t<></t 	2.600 4.500 .140 <t< td=""><td>.950 <t .370 <t< td=""><td>.730 < 1.100 .950 <</td></t<></t </td></t<>	.950 <t .370 <t< td=""><td>.730 < 1.100 .950 <</td></t<></t 	.730 < 1.100 .950 <
APR MAY JUN JUL	.850 <t 9.000 .240 <t 4.000</t </t 	2.200 2.800 ISM 1.300	.770 <t .450 <t 5.800</t </t 	2.600 4.500 .140 <t .660 <t< td=""><td>.950 <t .370 <t 1.900</t </t </td><td>.730 < 1.100 .950 <</td></t<></t 	.950 <t .370 <t 1.900</t </t 	.730 < 1.100 .950 <
APR MAY JUN JUL AUG	.850 <t 9.000 .240 <t 4.000 7.200</t </t 	2.200 2.800 ISM 1.300 1.000 <t< td=""><td>.770 <1 .450 <1 5.800 .730 <1</td><td>2.600 4.500 .140 <t .660 <t 1.300</t </t </td><td>.950 <t .370 <t 1.900 .350 <t< td=""><td>.730 < 1.100 .950 <</td></t<></t </t </td></t<>	.770 <1 .450 <1 5.800 .730 <1	2.600 4.500 .140 <t .660 <t 1.300</t </t 	.950 <t .370 <t 1.900 .350 <t< td=""><td>.730 < 1.100 .950 <</td></t<></t </t 	.730 < 1.100 .950 <
APR MAY JUN JUL AUG SEP	.850 <t 9.000 .240 <t 4.000 7.200 5.500</t </t 	2.200 2.800 ISM 1.300 1.000 <t 2.500</t 	.770 <t .450 <t 5.800 .730 <t 4.300</t </t </t 	2.600 4.500 .140 <t .660 <t 1.300 4.500</t </t 	.950 <t .370 <t 1.900 .350 <t 4.200</t </t </t 	.730 < 1.100
APR MAY JUN JUL AUG SEP OCT	.850 <t 9.000 .240 <t 4.000 7.200 5.500 .930 <t< td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700</t </td><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900</t </t </t </td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300</t </t </td><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL</t </t </t </td><td>.730 < 1.100 .950 < .390 < 4.200 BDL BDL</td></t<></t </t 	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700</t 	.770 <t .450 <t 5.800 .730 <t 4.300 1.900</t </t </t 	2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300</t </t 	.950 <t .370 <t 1.900 .350 <t 4.200 BDL</t </t </t 	.730 < 1.100 .950 < .390 < 4.200 BDL BDL
APR MAY JUN JUL AUG SEP OCT NOV	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL</t </td><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL</t </t </t </td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL</t </t </t </td><td>.730 < 1.100 .950 < .390 < 4.200 BDL BDL .160 <</td></t<></t </t </td></t>	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL</t 	.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL</t </t </t 	2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL</t </t </t </td><td>.730 < 1.100 .950 < .390 < 4.200 BDL BDL .160 <</td></t<></t </t 	.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL</t </t </t 	.730 < 1.100 .950 < .390 < 4.200 BDL BDL .160 <
APR MAY JUN JUL AUG SEP OCT NOV DEC	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL</t </td><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL</t </t </t </td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 d 1.100 .950 d .390 d 4.200 BDL BDL .160 d</td></t<></t </t </t </td></t<></t </t </td></t>	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL</t 	.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL</t </t </t 	2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 d 1.100 .950 d .390 d 4.200 BDL BDL .160 d</td></t<></t </t </t </td></t<></t </t 	.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 d 1.100 .950 d .390 d 4.200 BDL BDL .160 d</td></t<></t </t </t 	.730 d 1.100 .950 d .390 d 4.200 BDL BDL .160 d
APR MAY JUN JUL AUG SEP OCT NOV DEC	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <1 .450 <1 5.800 .730 <1 4.300 1.900 BDL 1.200</td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100</td></t<></t </t </t </td></t<></t </t </td></t<></t </td></t>	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <1 .450 <1 5.800 .730 <1 4.300 1.900 BDL 1.200</td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100</td></t<></t </t </t </td></t<></t </t </td></t<></t 	.770 <1 .450 <1 5.800 .730 <1 4.300 1.900 BDL 1.200	2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t< td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100</td></t<></t </t </t </td></t<></t </t 	.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100</td></t<></t </t </t 	.730 1.100
APR MAY JUN JUL AUG SEP OCT NOV DEC DPPER (UG JAN	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t </td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t DET'N LIMIT = .100</t </t </t </td><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t </td></t<></t </td></t>	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t </td><td>2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t DET'N LIMIT = .100</t </t </t </td><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t </td></t<></t 	.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t 	2.600 4.500 .140 <t .660 <t 1.300 4.500 1.300 BDL .430 <t DET'N LIMIT = .100</t </t </t 	.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t 	.730 1.100 1.100
APR MAY JUN JUL AUG SEP OCT NOV DEC OPPER (UI	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t </td><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 3.600<="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t GUIDELINE =</t </t </t </t </td><td>.730 1.100 1.100</td></t></td></t<></t </td></t>	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t </td><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 3.600<="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t GUIDELINE =</t </t </t </t </td><td>.730 1.100 1.100</td></t></td></t<></t 	.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t 	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 3.600<="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t GUIDELINE =</t </t </t </t </td><td>.730 1.100 1.100</td></t>	.950 <t .370 <t 1.900 .350 <t 4.200 BDL BDL .690 <t GUIDELINE =</t </t </t </t 	.730 1.100 1.100
APR MAY JUN JUL AUG SEP OCT NOV DEC	.850 <t .2300="" .240="" .850="" .870="" .930="" 3.500="" 4.000="" 5.500="" 6.400<="" 7.200="" 9.000="" <t="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t </td><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 3.600="" 3.900<="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t </t </t </t </td></t></td></t<></t </td></t>	2.200 2.800 ISM 1.300 1.000 <t 2.500 2.700 BDL .110 <t< td=""><td>.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t </td><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 3.600="" 3.900<="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t </t </t </t </td></t></td></t<></t 	.770 <t .450 <t 5.800 .730 <t 4.300 1.900 BDL 1.200</t </t </t 	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 3.600="" 3.900<="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t </t </t </t </td></t>	.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t< td=""><td>.730 1.100 1.100</td></t<></t </t </t </t </t </t 	.730 1.100 1.100
APR MAY JUN JUL AUG SEP OCT NOV DEC	.850 <t .2.300="" .240="" .850="" .870="" .930="" 3.500="" 4.000="" 4.700<="" 5.500="" 6.400="" 7.200="" 9.000="" <t="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.400<="" 1.900="" 2.500="" 2.700="" <t="" bdl="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 12.000="" 4.300="" 5.100="" 5.600<="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800<="" 3.600="" 3.900="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t .1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t .690 <5</t </t </t </t </t </t </t </td><td>.730 1.100 1.100</td></t></td></t></td></t></td></t>	2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.400<="" 1.900="" 2.500="" 2.700="" <t="" bdl="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 12.000="" 4.300="" 5.100="" 5.600<="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800<="" 3.600="" 3.900="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t .1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t .690 <5</t </t </t </t </t </t </t </td><td>.730 1.100 1.100</td></t></td></t></td></t>	.770 <t .450="" .730="" 1.200="" 1.900="" 12.000="" 4.300="" 5.100="" 5.600<="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800<="" 3.600="" 3.900="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t .1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t .690 <5</t </t </t </t </t </t </t </td><td>.730 1.100 1.100</td></t></td></t>	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800<="" 3.600="" 3.900="" 4.500="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t .1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t .690 <5</t </t </t </t </t </t </t </td><td>.730 1.100 1.100</td></t>	.950 <t .370 <t .1.900 .350 <t 4.200 BDL .690 <t .690 <t .690 <t .690 <t .690 <5</t </t </t </t </t </t </t 	.730 1.100 1.100
APR MAY JUN JUL AUG SEP OCT HOV DEC	.850 <t .2.300="" .240="" .850="" .870="" .930="" 2.300<="" 3.500="" 4.000="" 4.700="" 5.500="" 6.400="" 7.200="" 9.000="" <t="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.400="" 1.400<="" 1.900="" 2.500="" 2.700="" <t="" bdl="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 12.000="" 4.300="" 5.100="" 5.100<="" 5.600="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.500="" 4.700<="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 25.000="" 28.000="" 33.000="" 39.000<="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 - 1.100 1.100 .950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t></td></t></td></t></td></t>	2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.400="" 1.400<="" 1.900="" 2.500="" 2.700="" <t="" bdl="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 12.000="" 4.300="" 5.100="" 5.100<="" 5.600="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.500="" 4.700<="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 25.000="" 28.000="" 33.000="" 39.000<="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 - 1.100 1.100 .950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t></td></t></td></t>	.770 <t .450="" .730="" 1.200="" 1.900="" 12.000="" 4.300="" 5.100="" 5.100<="" 5.600="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.500="" 4.700<="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 25.000="" 28.000="" 33.000="" 39.000<="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 - 1.100 1.100 .950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t></td></t>	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.500="" 4.700<="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 25.000="" 28.000="" 33.000="" 39.000<="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 - 1.100 1.100 .950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t>	.950 <t .="" .350="" .370="" .690="" 1.900="" 25.000="" 28.000="" 33.000="" 39.000<="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 - 1.100 1.100 .950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500</td></t>	.730 - 1.100 1.100 .950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500
APR MAY JUN JUL AUG SEP OCT NOV DEC	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <="" <t="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" bdl="" ism<="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 4.300="" 4.500<="" 5.100="" 5.600="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.200<="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t GUIDELINE = 34.000 33.000 25.000 28.000 39.000</t </t </t </t </td><td>.730 1.100 1.100950390 4.200 BDL .160 .160 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t></td></t></td></t>	2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" bdl="" ism<="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 4.300="" 4.500<="" 5.100="" 5.600="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.200<="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t GUIDELINE = 34.000 33.000 25.000 28.000 39.000</t </t </t </t </td><td>.730 1.100 1.100950390 4.200 BDL .160 .160 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t></td></t>	.770 <t .450="" .730="" 1.200="" 1.900="" 4.300="" 4.500<="" 5.100="" 5.600="" 5.800="" 8.800="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.200<="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t GUIDELINE = 34.000 33.000 25.000 28.000 39.000</t </t </t </t </td><td>.730 1.100 1.100950390 4.200 BDL .160 .160 1000 (A3) 3.900 3.200 4.000 4.500</td></t></td></t>	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.800="" 3.600="" 3.900="" 4.200<="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t GUIDELINE = 34.000 33.000 25.000 28.000 39.000</t </t </t </t </td><td>.730 1.100 1.100950390 4.200 BDL .160 .160 1000 (A3) 3.900 3.200 4.000 4.500</td></t>	.950 <t .370 <t 1.900 .350 <t 4.200 BDL .690 <t GUIDELINE = 34.000 33.000 25.000 28.000 39.000</t </t </t </t 	.730 1.100 1.100950390 4.200 BDL .160 .160 1000 (A3) 3.900 3.200 4.000 4.500
APR MAY JUN JUL AUG SEP OCT NOV DEC OPPER (UI JAN FEB MAR APR MAY JUN JUL	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <="" <t="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.300<="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" bdl="" ism="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.600="" 5.800="" 8.800="" 9.200<="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .1.900="" .350="" .370="" .690="" .<="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400</td></t></td></t></td></t></td></t></td></t>	2.200 2.800 ISM 1.300 1.000 <t .110="" .980="" 1.200="" 1.300<="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" bdl="" ism="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.600="" 5.800="" 8.800="" 9.200<="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .1.900="" .350="" .370="" .690="" .<="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400</td></t></td></t></td></t></td></t>	.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.600="" 5.800="" 8.800="" 9.200<="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .1.900="" .350="" .370="" .690="" .<="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400</td></t></td></t></td></t>	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .1.900="" .350="" .370="" .690="" .<="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400</td></t></td></t>	.950 <t .1.900="" .350="" .370="" .690="" .<="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400</td></t>	.730 - 1.100 1.100950390 - 4.200 BDL BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400
APR MAY JUN JUL AUG SEP OCT HOV DEC OPPER (UI JAN FEB MAR APR MAY JUN JUL AUG	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t .110="" .650="" .980="" 1.200="" 1.300="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" <t<="" bdl="" ism="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.100<="" 5.600="" 5.800="" 8.800="" 9.200="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700="" 2.800="" 2.900<="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .5000="" .590="" .690="" 1.900="" 16.000<="" 18.000="" 24.000="" 28.000="" 39.000="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400 2.700 3.000</td></t></td></t></td></t></td></t></td></t>	2.200 2.800 ISM 1.300 1.000 <t .110="" .650="" .980="" 1.200="" 1.300="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" <t<="" bdl="" ism="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.100<="" 5.600="" 5.800="" 8.800="" 9.200="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700="" 2.800="" 2.900<="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .5000="" .590="" .690="" 1.900="" 16.000<="" 18.000="" 24.000="" 28.000="" 39.000="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400 2.700 3.000</td></t></td></t></td></t></td></t>	.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.100<="" 5.600="" 5.800="" 8.800="" 9.200="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700="" 2.800="" 2.900<="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .5000="" .590="" .690="" 1.900="" 16.000<="" 18.000="" 24.000="" 28.000="" 39.000="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400 2.700 3.000</td></t></td></t></td></t>	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700="" 2.800="" 2.900<="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .5000="" .590="" .690="" 1.900="" 16.000<="" 18.000="" 24.000="" 28.000="" 39.000="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400 2.700 3.000</td></t></td></t>	.950 <t .="" .350="" .370="" .5000="" .590="" .690="" 1.900="" 16.000<="" 18.000="" 24.000="" 28.000="" 39.000="" 4.200="" <t="" bdl="" td=""><td>.730 - 1.100 1.100950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400 2.700 3.000</td></t>	.730 - 1.100 1.100950390 - 4.200 BDL .160 - 1000 (A3) 3.900 3.200 4.000 4.500 3.400 2.700 3.000
APR MAY JUN JUL AUG SEP OCT NOV DEC	.850 <t .240="" .850="" .870="" .930="" 4.000="" 5.500="" 7.200="" 9.000="" <t="" <t<="" td=""><td>2.200 2.800 ISM 1.300 1.000 <t .110="" .650="" .980="" 1.100<="" 1.200="" 1.300="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" bdl="" ism="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.600="" 5.800="" 8.800="" 9.200<="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 18.000<="" 24.000="" 25.000="" 28.000="" 33.000="" 39.000="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 1.100 1.100950390 4.200 BDL160160</td></t></td></t></td></t></td></t></td></t>	2.200 2.800 ISM 1.300 1.000 <t .110="" .650="" .980="" 1.100<="" 1.200="" 1.300="" 1.400="" 1.900="" 2.500="" 2.700="" <t="" bdl="" ism="" td=""><td>.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.600="" 5.800="" 8.800="" 9.200<="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 18.000<="" 24.000="" 25.000="" 28.000="" 33.000="" 39.000="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 1.100 1.100950390 4.200 BDL160160</td></t></td></t></td></t></td></t>	.770 <t .450="" .730="" 1.200="" 1.900="" 10.000="" 12.000="" 4.300="" 4.500="" 5.100="" 5.600="" 5.800="" 8.800="" 9.200<="" <t="" bdl="" td=""><td>2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 18.000<="" 24.000="" 25.000="" 28.000="" 33.000="" 39.000="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 1.100 1.100950390 4.200 BDL160160</td></t></td></t></td></t>	2.600 4.500 .140 <t .430="" .660="" 1.300="" 2.000="" 2.700<="" 2.800="" 3.600="" 3.900="" 4.200="" 4.500="" 4.700="" <t="" bdl="" det'n="" limit=".100" td=""><td>.950 <t .="" .350="" .370="" .690="" 1.900="" 18.000<="" 24.000="" 25.000="" 28.000="" 33.000="" 39.000="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 1.100 1.100950390 4.200 BDL160160</td></t></td></t>	.950 <t .="" .350="" .370="" .690="" 1.900="" 18.000<="" 24.000="" 25.000="" 28.000="" 33.000="" 39.000="" 4.200="" <t="" bdl="" guideline="34.000" td=""><td>.730 1.100 1.100950390 4.200 BDL160160</td></t>	.730 1.100 1.100950390 4.200 BDL160160

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW		TREATED		SITE 1			SITE 2			
					STANDING		FREE FLOW	STANDING	FREE F	LOW	
IRON (UG/I	.)					• • •	DET'N LIMIT = 4.000	GUIDELINE :	= 300. (A3))	
JAN	770.000		13.000	<t< td=""><td>BDL</td><td></td><td>BDL</td><td>22.000</td><td><τ 1</td><td>5.000</td><td><t< td=""></t<></td></t<>	BDL		BDL	22.000	<τ 1	5.000	<t< td=""></t<>
FEB	1100.000		16.000	<1	11.000	<1	16.000 <t< td=""><td>17.000</td><td><t 2<="" td=""><td>6.000</td><td><1</td></t></td></t<>	17.000	<t 2<="" td=""><td>6.000</td><td><1</td></t>	6.000	<1
MAR	BOL		13.000	<t< td=""><td>7.600</td><td><T</td><td>5.100 <t< td=""><td>19.000</td><td><t 1<="" td=""><td>4.000</td><td><t< td=""></t<></td></t></td></t<></td></t<>	7.600	< T	5.100 <t< td=""><td>19.000</td><td><t 1<="" td=""><td>4.000</td><td><t< td=""></t<></td></t></td></t<>	19.000	<t 1<="" td=""><td>4.000</td><td><t< td=""></t<></td></t>	4.000	<t< td=""></t<>
APR	1100.000		13.000	<t< td=""><td>6.300</td><td><t< td=""><td>BDL</td><td>26.000</td><td><1</td><td>7.800</td><td><1</td></t<></td></t<>	6.300	<t< td=""><td>BDL</td><td>26.000</td><td><1</td><td>7.800</td><td><1</td></t<>	BDL	26.000	<1	7.800	<1
MAY	290.000		BDL		BDL		BDL	BDL		BDL	
JUN	100.000		FSM		BDL		6.100 <t< td=""><td>•</td><td></td><td>•</td><td></td></t<>	•		•	
JUL	850.000		19.000	<t< td=""><td>BDL</td><td></td><td>6.200 <t< td=""><td>15.000</td><td><t 1<="" td=""><td>6.000</td><td><1</td></t></td></t<></td></t<>	BDL		6.200 <t< td=""><td>15.000</td><td><t 1<="" td=""><td>6.000</td><td><1</td></t></td></t<>	15.000	<t 1<="" td=""><td>6.000</td><td><1</td></t>	6.000	<1
AUG	180.000		6.700	<1	16.000	<t< td=""><td>BDL</td><td>6.300</td><td><1</td><td>9.300</td><td><t< td=""></t<></td></t<>	BDL	6.300	<1	9.300	<t< td=""></t<>
SEP	770.000		BDL		BDL		BDL	8.000	<t< td=""><td>8.300</td><td><t< td=""></t<></td></t<>	8.300	<t< td=""></t<>
OCT	370.000		BDL		BDL		BDL	7.400	<₹	5.100	<1
NOV	1500.000		98.000		BDL		BDL	11.000	<1 1	3.000	<7
DEC	1600.000		BDL		BDL		BDL	12.000	<1 1	6.000	<1
MERCURY (JG/L)						DET'N LIMIT = 0.010	GUIDELINE :	= 1.000 (A	(1)	
JAN	.030	<1	.030	<₹			.040 <t< td=""><td>•</td><td></td><td>.030</td><td><T</td></t<>	•		.030	< T
FEB	.030	<1	.030	<1			.020 <t< td=""><td>•</td><td></td><td>.030</td><td><t< td=""></t<></td></t<>	•		.030	<t< td=""></t<>
MAR	.020	<1	.030	<1	•		.030 <1			.030	<t< td=""></t<>
APR	.020	<1	.040	<1	•		.030 <t< td=""><td>•</td><td></td><td>.030</td><td><1</td></t<>	•		.030	<1
MAY	.050	<1	.040	<1			.030 <7	•		.030	<t< td=""></t<>
JUN	.040	<1	.050	<1			.040 <t< td=""><td>•</td><td></td><td></td><td></td></t<>	•			
JUL	.040	<t< td=""><td>.040</td><td><t< td=""><td></td><td></td><td>.040 <t< td=""><td>•</td><td></td><td>.040</td><td><t< td=""></t<></td></t<></td></t<></td></t<>	.040	<t< td=""><td></td><td></td><td>.040 <t< td=""><td>•</td><td></td><td>.040</td><td><t< td=""></t<></td></t<></td></t<>			.040 <t< td=""><td>•</td><td></td><td>.040</td><td><t< td=""></t<></td></t<>	•		.040	<t< td=""></t<>
AUG	.040	<1	.070				.060			.070	
SEP	.040	<7	.030	<t< td=""><td></td><td></td><td>.030 <t< td=""><td>•</td><td></td><td>.030</td><td><1</td></t<></td></t<>			.030 <t< td=""><td>•</td><td></td><td>.030</td><td><1</td></t<>	•		.030	<1
OCT	.030	<1	.060		•		.030 <7	•		.030	<1
NOV	.040	<t< td=""><td>.090</td><td></td><td></td><td></td><td>.070</td><td>•</td><td></td><td>.040</td><td><t< td=""></t<></td></t<>	.090				.070	•		.040	<t< td=""></t<>
DEC	.040	<1	.030	< T	•		.040 <7	•		.040	<1
MANGANESE	(UG/L)					DET'N LIMIT = .050	GUIDELINE	= 50.0 (A3))	
JAN	90.000		1.200		.800		.760	1.400		1.500	
FEB	150.000		1.100		.990		.990	.850		1.700	
MAR	BDL		.610		.550		.470 <t< td=""><td>.970</td><td></td><td>1.100</td><td></td></t<>	.970		1.100	
APR	140.000		1.500		1.100		1.100	2.900		1.500	
MAY	40.000		.760		.790		.880	1.100		2.100	
JUN	9.800		ISM		.920		.900				
JUL	130.000		.900		.470	<1	.460 <t< td=""><td>2.200</td><td></td><td>2.300</td><td></td></t<>	2.200		2.300	
AUG	16.000		.600		.890		.680	2.100		1.900	
SEP	110.000		-490	<1	.370	<t< td=""><td>.320 <t< td=""><td>2.600</td><td></td><td>2.200</td><td></td></t<></td></t<>	.320 <t< td=""><td>2.600</td><td></td><td>2.200</td><td></td></t<>	2.600		2.200	
OCT	24.000		-440		.410		.440 <t< td=""><td>1.900</td><td></td><td>1.900</td><td></td></t<>	1.900		1.900	
NOV	180.000		1.500		.960		1.000	1.300		1.800	
DEC	200.000		1.200		.790		.810	1.100		2.000	
MOLYBDENU	(UG/L	>					DET'N LIMIT = 0.02	O GUIDELINE	= N/A		
JAN	.520		.980		.980		.960	1.000		1.100	
FEB	.540		1.200		1.200		1.200	1.100		1.100	
MAR	1.700		1.200		1.300		1.300	1.200		1.300	
APR	.400	<1	1.200		1.100		1.100	1.200		1.200	

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW	TREATED	SITE 1		SITE 2	
•••••			STANDING	FREE FLOW	STANDING	FREE FLOW
MAY	1.100	1.600	1.300	1.300	1.300	1.200
JUN	1.600	1.555 1SM	1.600	1.500	1.500	
JUL	.800	1.300	1.400	1.400	1.400	1.300
AUG	1.200	1.300	1.300	1.300	1.200	1.300
SEP	.840	1.300	1.600	1.800	1.400	1.600
ОСТ	1.100	1.300	1.300	1.300	1.200	1.200
NOV	.380 <t< td=""><td>1.100</td><td>1.200</td><td>1,100</td><td>1.100</td><td>1.100</td></t<>	1.100	1.200	1,100	1.100	1.100
DEC	.360 <t< td=""><td>1.100</td><td>1.100</td><td>1.200</td><td>1.200</td><td>1.200</td></t<>	1.100	1.100	1.200	1.200	1.200
NICKEL (U	G/L)			DET'N LIMIT = 0.	100 GUIDELINE =	50. (F3)
JAN	1 700 -1	2/0 47	.970 < T	.840 <t< td=""><td>070 -7</td><td>.740 <1</td></t<>	070 -7	.740 <1
FEB	1.700 <t 1.500 <t< td=""><td>.240 <t BDL</t </td><td>.360 <t< td=""><td>.540 <t< td=""><td>.930 <t .760 <t< td=""><td></td></t<></t </td></t<></td></t<></td></t<></t 	.240 <t BDL</t 	.360 <t< td=""><td>.540 <t< td=""><td>.930 <t .760 <t< td=""><td></td></t<></t </td></t<></td></t<>	.540 <t< td=""><td>.930 <t .760 <t< td=""><td></td></t<></t </td></t<>	.930 <t .760 <t< td=""><td></td></t<></t 	
MAR	.270 <t< td=""><td>1.500 <t< td=""><td>2.100</td><td>1.400 <t< td=""><td>1.900 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	1.500 <t< td=""><td>2.100</td><td>1.400 <t< td=""><td>1.900 <t< td=""><td></td></t<></td></t<></td></t<>	2.100	1.400 <t< td=""><td>1.900 <t< td=""><td></td></t<></td></t<>	1.900 <t< td=""><td></td></t<>	
APR	1.800 <t< td=""><td>.400 <t< td=""><td>.530 <t< td=""><td>.380 <t< td=""><td>.740 <1</td><td></td></t<></td></t<></td></t<></td></t<>	.400 <t< td=""><td>.530 <t< td=""><td>.380 <t< td=""><td>.740 <1</td><td></td></t<></td></t<></td></t<>	.530 <t< td=""><td>.380 <t< td=""><td>.740 <1</td><td></td></t<></td></t<>	.380 <t< td=""><td>.740 <1</td><td></td></t<>	.740 <1	
MAY	2.100	1.500 <t< td=""><td>1.400 <t< td=""><td>1.600 <t< td=""><td>1.900 <7</td><td></td></t<></td></t<></td></t<>	1.400 <t< td=""><td>1.600 <t< td=""><td>1.900 <7</td><td></td></t<></td></t<>	1.600 <t< td=""><td>1.900 <7</td><td></td></t<>	1.900 <7	
אטנ	.780 <1	1.500 <1	.680 <t< td=""><td>.310 <t< td=""><td></td><td>1.300 41</td></t<></td></t<>	.310 <t< td=""><td></td><td>1.300 41</td></t<>		1.300 41
JUL	1.600 <t< td=""><td>.420 <t< td=""><td>.780 <t< td=""><td>.530 <t< td=""><td>.540 <t< td=""><td>.770 <⊺</td></t<></td></t<></td></t<></td></t<></td></t<>	.420 <t< td=""><td>.780 <t< td=""><td>.530 <t< td=""><td>.540 <t< td=""><td>.770 <⊺</td></t<></td></t<></td></t<></td></t<>	.780 <t< td=""><td>.530 <t< td=""><td>.540 <t< td=""><td>.770 <⊺</td></t<></td></t<></td></t<>	.530 <t< td=""><td>.540 <t< td=""><td>.770 <⊺</td></t<></td></t<>	.540 <t< td=""><td>.770 <⊺</td></t<>	.770 <⊺
AUG	2.100	1.600 <t< td=""><td>2,600</td><td>1.700 <t< td=""><td>2.100</td><td>1.400 <t< td=""></t<></td></t<></td></t<>	2,600	1.700 <t< td=""><td>2.100</td><td>1.400 <t< td=""></t<></td></t<>	2.100	1.400 <t< td=""></t<>
SEP	1.800 <t< td=""><td>.350 <t< td=""><td>.810 <t< td=""><td>.890 <1</td><td>3.300</td><td>.680 <t< td=""></t<></td></t<></td></t<></td></t<>	.350 <t< td=""><td>.810 <t< td=""><td>.890 <1</td><td>3.300</td><td>.680 <t< td=""></t<></td></t<></td></t<>	.810 <t< td=""><td>.890 <1</td><td>3.300</td><td>.680 <t< td=""></t<></td></t<>	.890 <1	3.300	.680 <t< td=""></t<>
OCT	1.200 <t< td=""><td>.240 <t< td=""><td>1.400 <t< td=""><td>.280 <t< td=""><td>.750 <t< td=""><td></td></t<></td></t<></td></t<></td></t<></td></t<>	.240 <t< td=""><td>1.400 <t< td=""><td>.280 <t< td=""><td>.750 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	1.400 <t< td=""><td>.280 <t< td=""><td>.750 <t< td=""><td></td></t<></td></t<></td></t<>	.280 <t< td=""><td>.750 <t< td=""><td></td></t<></td></t<>	.750 <t< td=""><td></td></t<>	
NOV	3.600	.960 <t< td=""><td>2.300</td><td>1.300 <7</td><td>2.100</td><td>1.400 <t< td=""></t<></td></t<>	2.300	1.300 <7	2.100	1.400 <t< td=""></t<>
DEC	1.900 <t< td=""><td>.820 <t< td=""><td>.770 <1</td><td>.960 <t< td=""><td>1.100 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	.820 <t< td=""><td>.770 <1</td><td>.960 <t< td=""><td>1.100 <t< td=""><td></td></t<></td></t<></td></t<>	.770 <1	.960 <t< td=""><td>1.100 <t< td=""><td></td></t<></td></t<>	1.100 <t< td=""><td></td></t<>	
LEAD (UG/	 L)			DET'N LIMIT = 0.	050 GUIDELINE =	50. (A1)
JAN	1.800	.070 <ī	4.000	.230	4.200	.350
FEB	2.300	.060 <t< td=""><td>1.000</td><td>.210</td><td>2.200</td><td>.250</td></t<>	1.000	.210	2.200	.250
MAR	.090 <t< td=""><td>.190 <t< td=""><td>.790</td><td>.460</td><td>2.000</td><td>.430</td></t<></td></t<>	.190 <t< td=""><td>.790</td><td>.460</td><td>2.000</td><td>.430</td></t<>	.790	.460	2.000	.430
APR	2.800	.340	1.500	.510	5.800	.520
MAY	.890	BOL	.670	.420	3.000	.680
JUN	.250	ISM	1.000	.510	3.000	
JUL	2.300	.180 <t< td=""><td>4.400</td><td>.940</td><td>3.100</td><td>.910</td></t<>	4.400	.940	3.100	.910
AUG	.460	BOL	1.800	.650	2.600	.850
SEP	2.200	.100 <t< td=""><td>1.200</td><td>.830</td><td>3.200</td><td>1.000</td></t<>	1.200	.830	3.200	1.000
OCT	.510	.070 <7	1.100	.380	3.300	.600
NOV	2.800	.030 <t< td=""><td>1.300</td><td>.240</td><td>2.100</td><td>.320</td></t<>	1.300	.240	2.100	.320
DEC	3.100	BDL	.720	.150 <t< td=""><td>2.000</td><td>.260</td></t<>	2.000	.260
ANTIMONY	(UG/L)			DET'N LIMIT = .0	50 GUIDELINE =	146. (D4)
JAN	.360	.390	.450	.540	.590	.500
FEB	.300	.460	.420	.450	.550	.440
MAR	.990	.730	.730	.780	.740	.660
APR	.360	.550	.580	.670	.640	.500
MAY	.840	.740	.810	.720	.870	.810
JUN	.950	ISM	.980	.940		
JUL	.540	.620	.730	.770	720	.630
AUG	.840	.620	.640	.710	.750	.740
SEP	.600	.730	.610	.610	.650	.620

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

THALLIUM (UG/L)

DISTRIBUTION SYSTEM

DET'N LIMIT = .010 GUIDELINE = 13. (D4)

	RAW	TREATED	SITE 1		SITE 2	
	,		STANDING	FREE FLOW	STANDING	FREE FLOW
ост	.430	.440	.550	.550	.650	.690
NOV	.270	.320	.380	.320	.440	.300
DEC	.250	.440	.510	.440	.560	.520
SELENIUM	(UG/L)			DET'N LIMIT = 0.	200 GUIDELINE =	10. (A1)
NAL	.420 <t< td=""><td>.240 <1</td><td>1.700 <ī</td><td>.630 <t< td=""><td>.630 <1</td><td>1.000 <7</td></t<></td></t<>	.240 <1	1.700 <ī	.630 <t< td=""><td>.630 <1</td><td>1.000 <7</td></t<>	.630 <1	1.000 <7
FEB	1.400 <t< td=""><td>.600 <t< td=""><td>2.000 <t< td=""><td></td><td>2.100 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	.600 <t< td=""><td>2.000 <t< td=""><td></td><td>2.100 <t< td=""><td></td></t<></td></t<></td></t<>	2.000 <t< td=""><td></td><td>2.100 <t< td=""><td></td></t<></td></t<>		2.100 <t< td=""><td></td></t<>	
MAR	6.800 <t< td=""><td>4.500 <t< td=""><td>4.700 <t< td=""><td></td><td>5.400 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	4.500 <t< td=""><td>4.700 <t< td=""><td></td><td>5.400 <t< td=""><td></td></t<></td></t<></td></t<>	4.700 <t< td=""><td></td><td>5.400 <t< td=""><td></td></t<></td></t<>		5.400 <t< td=""><td></td></t<>	
APR	1.400 <t< td=""><td>3.600 <t< td=""><td>3.200 <t< td=""><td></td><td>4.500 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	3.600 <t< td=""><td>3.200 <t< td=""><td></td><td>4.500 <t< td=""><td></td></t<></td></t<></td></t<>	3.200 <t< td=""><td></td><td>4.500 <t< td=""><td></td></t<></td></t<>		4.500 <t< td=""><td></td></t<>	
HAY	1.100 <t< td=""><td>2.600 <t< td=""><td>5.400 <t< td=""><td></td><td>4.000 <t< td=""><td></td></t<></td></t<></td></t<></td></t<>	2.600 <t< td=""><td>5.400 <t< td=""><td></td><td>4.000 <t< td=""><td></td></t<></td></t<></td></t<>	5.400 <t< td=""><td></td><td>4.000 <t< td=""><td></td></t<></td></t<>		4.000 <t< td=""><td></td></t<>	
JUN	.750 <t< td=""><td>1 SM</td><td>2.500 <t< td=""><td></td><td></td><td></td></t<></td></t<>	1 SM	2.500 <t< td=""><td></td><td></td><td></td></t<>			
JUL	BDL	2.200 <t< td=""><td>3.300 <t< td=""><td></td><td>4.300 <t< td=""><td></td></t<></td></t<></td></t<>	3.300 <t< td=""><td></td><td>4.300 <t< td=""><td></td></t<></td></t<>		4.300 <t< td=""><td></td></t<>	
AUG	1.300 <t< td=""><td>2.900 <t< td=""><td>3.500 <t< td=""><td></td><td>4.200 <t< td=""><td>5.700</td></t<></td></t<></td></t<></td></t<>	2.900 <t< td=""><td>3.500 <t< td=""><td></td><td>4.200 <t< td=""><td>5.700</td></t<></td></t<></td></t<>	3.500 <t< td=""><td></td><td>4.200 <t< td=""><td>5.700</td></t<></td></t<>		4.200 <t< td=""><td>5.700</td></t<>	5.700
SEP	5.300	6.100	2.200 <t< td=""><td></td><td>1.500 <t< td=""><td></td></t<></td></t<>		1.500 <t< td=""><td></td></t<>	
OCT	BDL	BDL	BDL	BDL	1.100 <t< td=""><td></td></t<>	
NOV	BDL	BDL	BDL	BDL	BDL	BDL
DEC	BOL	BDL	BDL	BDL	BDL	BDL
STRONTIUM	(UG/L)			DET'N LIMIT = .0	50 GUIDELINE =	N/A
JAN	140.000	130.000	130.000	130.000	130.000	130.000
FEB	170.000	150.000	150.000	150.000	150.000	150.000
MAR	79.000	150.000	150.000	150.000	150.000	150.000
APR	200.000	170.000	170.000	170.000	170.000	170.000
MAY	170.000	160.000	160.000	160.000	160.000	160.000
JUN	160.000	I SM	150.000	150.000		
JUL	170.000	150.000	160.000	150.000	150.000	150.000
AUG	150.000	150.000	150.000	150.000	140.000	140.000
SEP	170.000	150.000	180.000	180.000	170.000	160.000
OCT	150.000	150.000	150.000	150.000	150.000	150.000
NOV	180.000	150.000	150.000	150.000	140.000	140.000
DEC	180.000	140.000	150.000	150.000	150.000	140.000
TITANIUM	(UG/L)			DET'N LIMIT = .0	50 GUIDELINE =	N/A
4044	7 /00					4 500 -
JAN	7.600	2.100	2.100	1.600 <t< td=""><td>1.500 <7</td><td></td></t<>	1.500 <7	
FEB	9.300	2.300	2.300	2.000 <t< td=""><td>2.000 <1</td><td></td></t<>	2.000 <1	
MAR	1.700 <7	3.600	3.200	2.500	2.700	3.000
APR	16.000	6.700	6.800	6.800	7.000	6.800
MAY	8.600	3.800	5.000	5.000	4.900	5.100
JUN	6.900	ISM	5.200	5.200	•	•
JUL	13.000	4.300	5.000	4.700	4.900	4.400
AUG	10.000	4.300	4.200	4.400	4.100	4.100
SEP	14.000	5.300	4.700	4.800	4.400	4.500
OCT	8.300	3.000	3.100	2.500	3.300	3.500
NOV	11.000	1.900 <t< td=""><td>2.700</td><td>1.900 <t< td=""><td>1.700 <</td><td></td></t<></td></t<>	2.700	1.900 <t< td=""><td>1.700 <</td><td></td></t<>	1.700 <	
DEC	11.000	2.600	2.700	2.500	2.400	2.300

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

TREATED SITE 1

RAW

DISTRIBUTION SYSTEM

SITE 2

	NAW.	INCATED	3116 1		5112 2	
• • • • • • • • • • • • • • • • • • • •			STANDING	FREE FLOW	STANDING	FREE FLOW
JAN	BDL	BDL	BDL	BDL	BDL	BOL
FEB	.050 <t< td=""><td>BDL</td><td>.020 <t< td=""><td>.020 <t< td=""><td>BDL</td><td>.020 <t< td=""></t<></td></t<></td></t<></td></t<>	BDL	.020 <t< td=""><td>.020 <t< td=""><td>BDL</td><td>.020 <t< td=""></t<></td></t<></td></t<>	.020 <t< td=""><td>BDL</td><td>.020 <t< td=""></t<></td></t<>	BDL	.020 <t< td=""></t<>
MAR	BDL	BOL	BDL	BOL	BDL	BOL
APR	.290	.150 <t< td=""><td>.190 <t< td=""><td>.190 <t< td=""><td>.190 <t< td=""><td>.200 <7</td></t<></td></t<></td></t<></td></t<>	.190 <t< td=""><td>.190 <t< td=""><td>.190 <t< td=""><td>.200 <7</td></t<></td></t<></td></t<>	.190 <t< td=""><td>.190 <t< td=""><td>.200 <7</td></t<></td></t<>	.190 <t< td=""><td>.200 <7</td></t<>	.200 <7
HAY	.040 <t< td=""><td>BOL</td><td>.050 <t< td=""><td>.050 <t< td=""><td>.040 <t< td=""><td>BOL</td></t<></td></t<></td></t<></td></t<>	BOL	.050 <t< td=""><td>.050 <t< td=""><td>.040 <t< td=""><td>BOL</td></t<></td></t<></td></t<>	.050 <t< td=""><td>.040 <t< td=""><td>BOL</td></t<></td></t<>	.040 <t< td=""><td>BOL</td></t<>	BOL
JUN	.080 <t< td=""><td>ISM</td><td>.070 <7</td><td>.020 <t< td=""><td>•</td><td>•</td></t<></td></t<>	ISM	.070 <7	.020 <t< td=""><td>•</td><td>•</td></t<>	•	•
JUL	.020 <t< td=""><td>.030 <7</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td></t<>	.030 <7	BDL	BDL	BDL	BDL
AUG	.030 <t< td=""><td>.020 <t< td=""><td>.060 <t< td=""><td>.060 <t< td=""><td>.020 <t< td=""><td>.020 <7</td></t<></td></t<></td></t<></td></t<></td></t<>	.020 <t< td=""><td>.060 <t< td=""><td>.060 <t< td=""><td>.020 <t< td=""><td>.020 <7</td></t<></td></t<></td></t<></td></t<>	.060 <t< td=""><td>.060 <t< td=""><td>.020 <t< td=""><td>.020 <7</td></t<></td></t<></td></t<>	.060 <t< td=""><td>.020 <t< td=""><td>.020 <7</td></t<></td></t<>	.020 <t< td=""><td>.020 <7</td></t<>	.020 <7
SEP	.130 <t< td=""><td>.040 <t< td=""><td>.060 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<></td></t<></td></t<>	.040 <t< td=""><td>.060 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<></td></t<>	.060 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td></t<>	BDL	BDL	BDL
OCT	.030 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td></t<>	BDL	BDL	BDL	BDL	BDL
NOV	.030 <t< td=""><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td><td>BDL</td></t<>	BDL	BDL	BDL	BDL	BDL
DEC	.020 <7	BOL	BDL	BDL	BDL	BDL
JRANIUM (L	JG/L)	•	•	DET'N LIMIT = .020	GUIDELINE = 1	00.(B1)
JAN	.300	.180 <t< td=""><td>.190 <t< td=""><td>.220</td><td>.240</td><td>.220</td></t<></td></t<>	.190 <t< td=""><td>.220</td><td>.240</td><td>.220</td></t<>	.220	.240	.220
FEB	.440	.300	.260	.210	.260	.280
MAR	.440	.430	.420	.380	.390	.420
APR	.510	.430	.420	.440	.330	.300
MAY	.470	.500	.380	.380	.390	.460
JUN	.520	ISM	.440	.430	•	•
JUL	.600	.470	.690	.560	.450	.440
AUG	.510	.360	.430	.370	.440	.440
SEP	.500	.340	.470	.420	.590	.650
OCT	.340	.300	.310	.230	.240	.280
NOV	.390	.230	.240	.220	.300	.230
DEC	.390	.170 <t< td=""><td>.170 <t< td=""><td>.210</td><td>.190 <t< td=""><td>.180 <t< td=""></t<></td></t<></td></t<></td></t<>	.170 <t< td=""><td>.210</td><td>.190 <t< td=""><td>.180 <t< td=""></t<></td></t<></td></t<>	.210	.190 <t< td=""><td>.180 <t< td=""></t<></td></t<>	.180 <t< td=""></t<>
ANADIUM (UG/L }			DET'N LIMIT = .050	GUIDELINE = N	/A
JAN	1.200	.400 <t< td=""><td>.390 <t< td=""><td>.430 <t< td=""><td>.500 <t< td=""><td>.370 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.390 <t< td=""><td>.430 <t< td=""><td>.500 <t< td=""><td>.370 <t< td=""></t<></td></t<></td></t<></td></t<>	.430 <t< td=""><td>.500 <t< td=""><td>.370 <t< td=""></t<></td></t<></td></t<>	.500 <t< td=""><td>.370 <t< td=""></t<></td></t<>	.370 <t< td=""></t<>
FEB	1.600	.310 <t< td=""><td>.300 <t< td=""><td>.250 <t< td=""><td>.340 <t< td=""><td>.330 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.300 <t< td=""><td>.250 <t< td=""><td>.340 <t< td=""><td>.330 <t< td=""></t<></td></t<></td></t<></td></t<>	.250 <t< td=""><td>.340 <t< td=""><td>.330 <t< td=""></t<></td></t<></td></t<>	.340 <t< td=""><td>.330 <t< td=""></t<></td></t<>	.330 <t< td=""></t<>
MAR	.160 <t< td=""><td>.290 <t< td=""><td>.290 <t< td=""><td>.310 <t< td=""><td>.310 <t< td=""><td>.280 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<></td></t<>	.290 <t< td=""><td>.290 <t< td=""><td>.310 <t< td=""><td>.310 <t< td=""><td>.280 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.290 <t< td=""><td>.310 <t< td=""><td>.310 <t< td=""><td>.280 <t< td=""></t<></td></t<></td></t<></td></t<>	.310 <t< td=""><td>.310 <t< td=""><td>.280 <t< td=""></t<></td></t<></td></t<>	.310 <t< td=""><td>.280 <t< td=""></t<></td></t<>	.280 <t< td=""></t<>
APR	1.600	.360 <t< td=""><td>.410 <t< td=""><td>.390 <t< td=""><td>.380 <t< td=""><td>.250 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	.410 <t< td=""><td>.390 <t< td=""><td>.380 <t< td=""><td>.250 <t< td=""></t<></td></t<></td></t<></td></t<>	.390 <t< td=""><td>.380 <t< td=""><td>.250 <t< td=""></t<></td></t<></td></t<>	.380 <t< td=""><td>.250 <t< td=""></t<></td></t<>	.250 <t< td=""></t<>
MAY	.720	.440 <t< td=""><td>.380 <t< td=""><td>.390 <t< td=""><td>.540</td><td>.390 <t< td=""></t<></td></t<></td></t<></td></t<>	.380 <t< td=""><td>.390 <t< td=""><td>.540</td><td>.390 <t< td=""></t<></td></t<></td></t<>	.390 <t< td=""><td>.540</td><td>.390 <t< td=""></t<></td></t<>	.540	.390 <t< td=""></t<>
JUN	.330 <t< td=""><td>! SM</td><td>.430 <t< td=""><td>.450 <t< td=""><td>•</td><td>•</td></t<></td></t<></td></t<>	! SM	.430 <t< td=""><td>.450 <t< td=""><td>•</td><td>•</td></t<></td></t<>	.450 <t< td=""><td>•</td><td>•</td></t<>	•	•
JUL	1.300	.480 <t< td=""><td>.470 <t< td=""><td>.450 <t< td=""><td>.490 <t< td=""><td>.430 <1</td></t<></td></t<></td></t<></td></t<>	.470 <t< td=""><td>.450 <t< td=""><td>.490 <t< td=""><td>.430 <1</td></t<></td></t<></td></t<>	.450 <t< td=""><td>.490 <t< td=""><td>.430 <1</td></t<></td></t<>	.490 <t< td=""><td>.430 <1</td></t<>	.430 <1
AUG	.540	.480 <t< td=""><td>.480 <t< td=""><td>.470 <t< td=""><td>.500 <t< td=""><td>.520</td></t<></td></t<></td></t<></td></t<>	.480 <t< td=""><td>.470 <t< td=""><td>.500 <t< td=""><td>.520</td></t<></td></t<></td></t<>	.470 <t< td=""><td>.500 <t< td=""><td>.520</td></t<></td></t<>	.500 <t< td=""><td>.520</td></t<>	.520
SEP	1.300	.680	.770	.790	.620	.560
OCT	.670	.580	.540	.580	.510	.500 <1
NOV	2.100	.570	.530	.570	.570	.510
DEC	2.100	.500 <t< td=""><td>.520</td><td>.540</td><td>.400 <t< td=""><td>.410 <7</td></t<></td></t<>	.520	.540	.400 <t< td=""><td>.410 <7</td></t<>	.410 <7
INC (UG/L	.)			DET'N LIMIT = .001	GUIDELINE = 5	000. (A3)
JAN	4.900	.570 <7	6.300	1.400	4.900	1.100
FEB	6.200	.900 <t< td=""><td>3.000</td><td>1.400</td><td>7.000</td><td>1.100</td></t<>	3.000	1.400	7.000	1.100
MAR	.470 <t< td=""><td>.880 <t< td=""><td>3.100</td><td>1.400</td><td>6.200</td><td>1.300</td></t<></td></t<>	.880 <t< td=""><td>3.100</td><td>1.400</td><td>6.200</td><td>1.300</td></t<>	3.100	1.400	6.200	1.300
400	7 200	4 200			/ 000	2 200
APR May	7.200	1.200 1.400	4.500	2.200	4.200	2.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1		SITE 2	
	,		STANDING	FREE FLOW	STANDING	FREE FLOW
JUN	2.300	ISM	3.600	2.200		
JUL	6.400	1.900	7.200	2.700	4.300	2.100
AUG	1.300	.740 <t< td=""><td>7.200</td><td>1.600</td><td>4.700</td><td>1.000 <t< td=""></t<></td></t<>	7.200	1.600	4.700	1.000 <t< td=""></t<>
SEP	6.300	1.700	3.400	2.600	6.100	2.600
OCT	2.100	.690 <t< td=""><td>4.700</td><td>1.600</td><td>13.000</td><td>1.400</td></t<>	4.700	1.600	13.000	1.400
NOV	9.200	1.300	6.000	2.100	4.100	1.500
DEC	8.700	.880 <t< td=""><td>3.300</td><td>1.300</td><td>8.300</td><td>1.200</td></t<>	3.300	1.300	8.300	1.200

WATER TREATMENT PLANT

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

RAW TREATED SITE 1

DISTRIBUTION SYSTEM

SITE 2

	KAW		INCATED	3116 1		0112 2	
				STANDING	FREE FLOW	STANDING	FREE FLOW
	p	ESTICU	DES & PCB				
ALPHA BHC	(NG/L		20 2 . 00	DET'N L	IMIT = 1.000	GUIDELINE = 7	'00 (G)
JAN	2.000	<7	1.000 <	Τ.	1.000 <7	•	1.000 <
FEB	3.000	<1	2.000 <	τ.	BOL	•	BDL
MAR	2.000	<t< td=""><td>2.000 <</td><td>τ.</td><td>1.000 <t< td=""><td>•</td><td>2.000 <</td></t<></td></t<>	2.000 <	τ.	1.000 <t< td=""><td>•</td><td>2.000 <</td></t<>	•	2.000 <
APR	!PE		2.000 <	τ.	1.000 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
MAY	1.000	<1	BOL	•	BDL	•	BDL
JUN	BDL		BDL	•	BDL	•	•
JUL	3.000	<t< td=""><td>BDL</td><td>•</td><td>BDL</td><td>•</td><td>2.000 <</td></t<>	BDL	•	BDL	•	2.000 <
AUG	BOL		BDL	•	BDL	•	BDL
SEP	BDL		8DL	•	8DL	•	BDL
OCT	BOL		BDL	•	BOL	•	BDL
NOV	BOL		BOL	•	BDL	•	BDL
DEC	1.000	<t< td=""><td>BDL</td><td>•</td><td>BDL</td><td>•</td><td>BOL</td></t<>	BDL	•	BDL	•	BOL
INDANE (IG/L)			DET'N L	IMIT = 1.000	GUIDELINE = 4	000 (A1)
JAN	BOL		BOL		BDL		BDL
FEB	2.000	<t< td=""><td>1.000 <</td><td>T.</td><td>BOL</td><td>•</td><td>BDL</td></t<>	1.000 <	T.	BOL	•	BDL
MAR	BOL		BOL		BOL	•	BOL
APR	!PE		BOL	•	BOL	•	BOL
MAY	BOL		BOL		BOL	•	BOL
JUN	BDL		BDL	•	BOL	•	
JUL	BOL		BOL	•	BDL	•	BDL
AUG	BOL		BOL	•	BDL	•	BDL
SEP	BOL		BOL	•	BDL	•	BOL
OCT	BDL		BDL	•	BDL	•	BDL
NOV	BOL		BDL	•	BOL	•	BDL
DEC	BOL		BDL	•	BDL	•	BDL
RAZINE (NG/L))		DET'N L	MIT = 50.00	GUIDELINE = 6	0000 (B3)
JAN	BOL		BOL	•	BDL		BDL
FEB	BDL		BOL		BDL		BDL
MAR	BOL		BOL	•	BOL		BDL
APR	BDL		BOL	•	BOL		BOL
MAY	BDL		BDL		BOL	•	130.000 <
JUN	BDL		BOL	•	BDL	•	
JUL	BDL		BOL	•	BDL	•	BDL
AUG	90.000	<t< td=""><td>50.000 <1</td><td></td><td></td><td></td><td></td></t<>	50.000 <1				
SEP	BDL		BOL		•		
OCT	BOL		BOL		•	•	
NOV	BOL		BDL	•	•	•	
DEC	BDL		BDL				

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
	PHENOL	ics				
PHENOLICS	(UG/L)		DET'N L	IMIT = 0.2	GUIDELINE = 2	2.00 (A3)
JAN	.800	1.000	•			
FEB	1.800	1.600	•	•	•	•
MAR	1.000	1.200		•	•	•
APR	1.200	1.000	•	•	•	•
MAY	4.400	9.200	•	•	•	•
JUN	1.600	1.200	•	•	•	•
JUL	4.000	1.000			•	
AUG	1.000 <t< td=""><td>.400 <t< td=""><td></td><td></td><td></td><td></td></t<></td></t<>	.400 <t< td=""><td></td><td></td><td></td><td></td></t<>				
SEP	BDL	.600 <t< td=""><td></td><td></td><td>•</td><td></td></t<>			•	
OCT	1.600	1.000				•
NOV	1.000	BDL		•		•
DEC	1.000	.600 <t< td=""><td>•</td><td>•</td><td>•</td><td>•</td></t<>	•	•	•	•

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

	RAW	TREATED	SITE 1	SITE 2		
			STANDING	FREE FLOW	STANDING	FREE FLOW
	VOLATIL	ES				
OLUENE (UG/L)			DET'N LIMIT = .050	GUIDELINE =	24.0 (B4)
JAN	BOL	BDL	•	.050 <7	•	.050 <
FEB	BOL	BDL	•	BDL	•	BDL
MAR	BDL	BDL	•	.100 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
APR	BDL	BDL	•	BOL	•	BDL
HAY	BDL	BDL	•	BOL	•	BOL
JUN	BOL	BOL	•	BDL	•	•
JUL	BOL	.050 <t< td=""><td>•</td><td>.050 <t< td=""><td>•</td><td>.050 <</td></t<></td></t<>	•	.050 <t< td=""><td>•</td><td>.050 <</td></t<>	•	.050 <
AUG	BDL	.050 <t< td=""><td>•</td><td>.050 <t< td=""><td>•</td><td>BOL</td></t<></td></t<>	•	.050 <t< td=""><td>•</td><td>BOL</td></t<>	•	BOL
SEP	BDL	BOL	•	BDL	•	BOL
OCT	BDL	BDL	•	!BT	•	BOL
NOV	BDL	BDL	•	BDL	•	BOL
DEC	BDL	BDL	•	Iυ	•	IU
THYLBENZENE (UG/L)		• • • • • • • • • • • • • • • • • • • •	DET'N LIMIT = .050	GUIDELINE =	2.4 (B4)
JAN	BDL	BOL		.050 <t< td=""><td></td><td>BOL</td></t<>		BOL
FEB	BOL	.050 <t< td=""><td>•</td><td>.050 <t< td=""><td>•</td><td>BOL</td></t<></td></t<>	•	.050 <t< td=""><td>•</td><td>BOL</td></t<>	•	BOL
MAR	BDL	BOL	•	.050 <7	•	BOL
APR	BDL	BOL	•	BOL	•	BOL
MAY	BDL	BOL	•	BOL	•	BOL
JUN	BOL	BOL	•	BDL	•	
JUL	BDL	BDL	•	BOL	•	BOL
AUG	BDL	BOL	•	BOL	•	BOL
SEP	BDL	BOL	•		•	BDL
OCT	BDL		•	BDL	•	BOL
NOV		BDL	•	1BT	•	
DEC	BOL	BDL BDL	•	BDL 1U	•	BDL !U
YRENE (UG/L)			DET'N LIMIT = .050	GUIDELINE =	46.5 (D2)
JAN	.300 <t< td=""><td>BDL</td><td></td><td>BDL</td><td></td><td>BDL</td></t<>	BDL		BDL		BDL
FEB	BDL	.100 <t< td=""><td>•</td><td>BOL</td><td>•</td><td>BDL</td></t<>	•	BOL	•	BDL
MAR	.250 <t< td=""><td>BDL .</td><td>•</td><td></td><td>•</td><td>BOL</td></t<>	BDL .	•		•	BOL
APR	BOL S	BOL	•	BDL	•	BOL
MAY	BOL	BOL	•	BOL	•	
JUN	.100 <t< td=""><td></td><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>		•	BDL	•	BDL
JUL	.100 <t< td=""><td>BDL BDL</td><td>•</td><td>BDL</td><td>•</td><td></td></t<>	BDL BDL	•	BDL	•	
		BDL 050 av	•	BDL	•	.100 <
AUG	.100 <t< td=""><td>.050 <t< td=""><td>•</td><td>.100 <7</td><td>•</td><td>.100 <</td></t<></td></t<>	.050 <t< td=""><td>•</td><td>.100 <7</td><td>•</td><td>.100 <</td></t<>	•	.100 <7	•	.100 <
SEP	BOL	BDL	•	BDL	•	BDL
OCT	BDL	BDL	•	IBT	•	BDL
NOV DEC	BDL BDL	BDL BDL	•	.100 <t IU</t 	•	BDL IU
HLOROFORM (UG			•	DET'N LIMIT = .100	GUIDELINE =	
	BDL	15.000		13.900		14.900
JAN			•			
JAN FEB Mar	BDL BDL	13.200 14.100	•	12.900	•	14.200 19.000

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

	RAW'	TREATED	SITE 1		SITE 2	
			STANDING	FREE FLOW	STANDING	FREE FLOW
APR	BOL	18.300	•	13.000	•	16.400
MAY	BDL	19.600	•	21.200	•	19.800
JUN	.300 <t< td=""><td>17.400</td><td>•</td><td>21.500</td><td>•</td><td>•</td></t<>	17.400	•	21.500	•	•
JUL	BDL	19.700	•	18.000	•	19.300
AUG	.200 <t< td=""><td>65.600</td><td>•</td><td>22.700</td><td>•</td><td>21.000</td></t<>	65.600	•	22.700	•	21.000
SEP	.100 <t< td=""><td>22.700</td><td>•</td><td>18.900</td><td>•</td><td>20.000</td></t<>	22.700	•	18.900	•	20.000
OCT	BDL	21.200	•	IBT	•	19.800
NOV	BDL	14.900	•	15.800	•	17.400
DEC	BDL	15.700		!U		IU
11, TRICK	LOROETHANE (UG/	L >		DET'N LIMIT = .020	GUIDELINE =	200 (D1)
JAN	BDL	BOL		BDL		BOL
FEB	BDL	BDL		BDL	•	BDL
MAR	BDL	BDL	•	BDL	•	.020 <
APR	BDL	BDL	•	BDL	•	BDL
MAY	BDL	BDL	•	BDL	•	BDL
JUN	BDL	BDL	•	BDL	•	•
JUL	BDL	BDL		.020 <t< td=""><td></td><td>BDL</td></t<>		BDL
AUG	BDL	BOL		BDL	•	BDL
SEP	.040 <t< td=""><td>BDL</td><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>	BDL	•	BDL	•	BDL
OCT	BOL	BDL	•	! BT	•	BOL
NOV	.060 <t< td=""><td>BDL</td><td>•</td><td>BDL</td><td>•</td><td>BDL</td></t<>	BDL	•	BDL	•	BDL
DEC	BDL	BOL		IU		IU
ICHLOROBR	OMOMETHANE (UG/I	L)		DET'N LIMIT = .050	GUIDELINE =	350 (A1+)
MAL	BDL	9.250		8.800	•	10.050
FEB		0 050		0.000	_	9.900
	BDL	8.850	•	9.200	•	,,,,,,
MAR	BDL	10.700	•	9.200 12.800	•	13.750
MAR APR			•		•	
	BDL	10.700	•	12.800	•	13. <i>7</i> 50
APR	BDL BDL	10.700 12.050	•	12.800 9.000 APS	•	13. <i>7</i> 50 11.100
APR MAY	BDL BDL BDL	10.700 12.050 11.150	:	12.800 9.000 APS 12.400 12.400	•	13. <i>7</i> 50 11.100
APR MAY JUN	BDL BDL BDL .100 <t< td=""><td>10.700 12.050 11.150 10.050</td><td>:</td><td>12.800 9.000 APS 12.400 12.400 11.100</td><td>•</td><td>13.750 11.100 11.500</td></t<>	10.700 12.050 11.150 10.050	:	12.800 9.000 APS 12.400 12.400 11.100	•	13.750 11.100 11.500
APR MAY JUN JUL AUG	BDL BDL BDL .100 <7 .100 <7 .150 <7	10.700 12.050 11.150 10.050 12.000 12.800	:	12.800 9.000 APS 12.400 12.400 11.100 12.450		13.750 11.100 11.500 11.900 13.000
APR MAY JUN JUL AUG SEP	BDL BDL BDL .100 <t .100 <t .150 <t< td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200</td><td></td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850</td><td></td><td>13.750 11.100 11.500 11.900 13.000 11.800</td></t<></t </t 	10.700 12.050 11.150 10.050 12.000 12.800 12.200		12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850		13.750 11.100 11.500 11.900 13.000 11.800
APR MAY JUN JUL AUG SEP OCT	BDL BDL .100 <t .100 <t .150 <t .150 <t BDL</t </t </t </t 	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750	: : : :	12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT		13.750 11.100 11.500 11.900 13.000 11.800 12.800
APR MAY JUN JUL AUG SEP	BDL BDL BDL .100 <t .100 <t .150 <t< td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200</td><td></td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850</td><td></td><td>13.750 11.100 11.500 11.900 13.000 11.800</td></t<></t </t 	10.700 12.050 11.150 10.050 12.000 12.800 12.200		12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850		13.750 11.100 11.500 11.900 13.000 11.800
APR MAY JUN JUL AUG SEP OCT NOV DEC	BDL BDL .100 <t .100 <t .150 <t .150 <t BDL BDL</t </t </t </t 	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500	: : : : : : :	12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350		13.750 11.100 11.500
APR MAY JUN JUL AUG SEP OCT NOV DEC	BDL BDL .100 <t .100="" .150="" <t="" bdl="" bdl<="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050</td><td></td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU</td><td>GUIDELINE =</td><td>13.750 11.100 11.500</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050		12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU	GUIDELINE =	13.750 11.100 11.500
APR MAY JUN JUL AUG SEP OCT NOV DEC HLOROD I BRO	BDL BDL .100 <t .100="" .150="" <t="" bdl="" bdl<="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050</td><td></td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100</td><td>GUIDELINE =</td><td>13.750 11.100 11.500</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050		12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100	GUIDELINE =	13.750 11.100 11.500
APR MAY JUN JUL AUG SEP OCT NOV DEC HLOROD I BRO	BDL BDL .100 <t .100="" .150="" <t="" bdl="" bdl<="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050</td><td></td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300</td><td>GUIDELINE =</td><td>13.750 11.100 11.500</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050		12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300	GUIDELINE =	13.750 11.100 11.500
APR MAY JUN JUL AUG SEP OCT NOV DEC HLOROD I BRO JAN FEB MAR	BDL BDL .100 <t (ug="" .100="" .150="" <t="" bdl="" bdl<="" dmomethane="" l="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.750 9.500 10.050</td><td>: : : : : : :</td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100</td><td></td><td>13.750 11.100 11.500</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.750 9.500 10.050	: : : : : : :	12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100		13.750 11.100 11.500
APR MAY JUN JUL AUG SEP OCT NOV DEC HLOROD I BRO JAN FEB MAR APR	BDL BDL .100 <t .100="" .150="" <t="" bdl="" bdl<="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050 4.800 4.300 5.000 5.500</td><td>: : : : : : : :</td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100 3.900</td><td>GUIDELINE =</td><td>13.750 11.100 11.500 11.900 13.000 11.800 12.800 10.150</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050 4.800 4.300 5.000 5.500	: : : : : : : :	12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100 3.900	GUIDELINE =	13.750 11.100 11.500 11.900 13.000 11.800 12.800 10.150
APR MAY JUN JUL AUG SEP OCT NOV DEC HLOROD I BRO JAN FEB MAR APR MAY	BDL BDL .100 <t .100="" .150="" <t="" bdl="" bdl<="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.750 9.500 10.050 4.800 4.300 5.000 5.500 6.200</td><td>: : : : : : : : : :</td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100 3.900 5.800</td><td>GUIDELINE =</td><td>13.750 11.100 11.500</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.750 9.500 10.050 4.800 4.300 5.000 5.500 6.200	: : : : : : : : : :	12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100 3.900 5.800	GUIDELINE =	13.750 11.100 11.500
APR MAY JUN JUL AUG SEP OCT NOV DEC HLOROD I BRO JAN FEB MAR APR	BDL BDL .100 <t .100="" .150="" <t="" bdl="" bdl<="" td=""><td>10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050 4.800 4.300 5.000 5.500</td><td></td><td>12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100 3.900</td><td>GUIDELINE =</td><td>13.750 11.100 11.500</td></t>	10.700 12.050 11.150 10.050 12.000 12.800 12.200 12.750 9.500 10.050 4.800 4.300 5.000 5.500		12.800 9.000 APS 12.400 12.400 11.100 12.450 10.850 IBT 10.350 IU DET'N LIMIT = .100 4.500 4.300 5.100 3.900	GUIDELINE =	13.750 11.100 11.500

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

SEP .100 < OCT BDL NOV BDL DEC BDL T-CHLOROETHYLENE (UG/ JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BOL BROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL APR BDL APR BDL APR BDL TOTL TRIHALOMETHANES JAN BDL FEB BDL NOV BDL JUL BDL AUG BDL TOTL TRIHALOMETHANES JAN BDL FEB BDL NOV BDL DEC BDL TOTL TRIHALOMETHANES	5.700 5.400 4.300 /L) BDL BDL	STANDING	FREE FLOW 5.500 18T 5.000 IU	STANDING	6.200 6.200 6.200 6.200
OCT BDL NOV BDL DEC BDL T-CHLOROETHYLENE (UG/ JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL SEP BDL OCT BDL NOV BDL DEC BDL SROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL OCT	5.700 5.400 4.300 /L) BDL BDL		18T 5.000		6.200
OCT BDL NOV BDL DEC BDL T-CHLOROETHYLENE (UG/ JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUN BDL SEP BDL OCT BDL NOV BDL DEC BDL SROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL OCT	5.700 5.400 4.300 /L) BDL BDL		5.000	· ·	
JAN BDL FEB BDL AUG BDL SEP BDL AVY BDL OCT BDL OCT BDL AVY BDL SEP BDL OCT BDL AVY BDL JUN BDL JUN BDL OCT BDL	4.300 /L) BDL BDL	· ·		•	6.200
JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL SEP BDL OCT BDL NOV BDL DEC BDL JAN BDL FEB BDL AAR BDL APR BDL SROMOFORM (UG/L) JAN BDL FEB BDL ADL ADL ADL ADL ADL ADL ADL ADL ADL A	/L) BOL BOL	•	IU	•	
JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL SEP BDL OCT BDL DEC BDL GROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL OCT BDL TEBB BDL OCT BDL TEBB BDL	BDL BDL	•			IU
FEB BDL MAR BDL APR BDL APR BDL JUN BDL JUN BDL JUL BDL SEP BDL OCT BDL DEC BDL GROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUN BDL JUN BDL JUN BDL JUN BDL TEB BDL ANG BDL SEP BDL OCT BDL OCT BDL OCT BDL TRIHALOMETHANES	BOL		DET'N LIMIT = .050	GUIDELINE = 1	0.0 (C2)
MAR BDL APR BDL MAY BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL DEC BDL GROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUN BDL JUN BDL OCT BDL OCT BDL TRIHALOMETHANES JAN BDL FEB BDL AUG BDL OCT BDL OCT BDL OCT BDL OCT BDL OCT BDL NOV BDL DEC BDL		•	BDL	•	BOL
APR BDL MAY BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL DEC BDL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUN BDL JUN BDL OCT BDL		•	BDL	•	BOL
MAY BOL JUN BOL JUN BOL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL ROMOFORM (UG/L) JAN BOL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUN BDL JUN BDL OCT BOL NOV BDL OCT BOL NOV BDL TRIHALOMETHANES JAN BDL FEB BOL APR BOL	BDL		BDL	•	BDL
JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL AUG BDL SEP BDL OCT BDL	BDL	•	BDL	•	BDL
JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL OCT BDL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES	BDL		BDL	•	BDL
AUG BDL SEP BOL OCT BDL NOV BDL DEC BDL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL SEP BDL OCT BDL NOV BDL DEC BDL OCT BDL OCT BDL OCT BDL OCT BDL NOV BDL DEC BDL OCT BDL AUG BDL SEP BDL OCT BDL OCT BDL NOV BDL DEC BDL	.050 <t< td=""><td>•</td><td>.050 <t< td=""><td>•</td><td>•</td></t<></td></t<>	•	.050 <t< td=""><td>•</td><td>•</td></t<>	•	•
SEP BDL OCT BDL NOV BDL DEC BDL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL SEP BDL OCT BDL NOV BDL DEC BDL OCT BDL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BDL MAR BDL APR BDL	BDL	•	.100 <t< td=""><td>•</td><td>BDL</td></t<>	•	BDL
OCT BDL NOV BDL DEC BDL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BDL APR BDL	BDL	•	BDL	•	BDL
NOV BDL DEC BOL ROMOFORM (UG/L) JAN BDL FEB BDL MAR BDL APR BDL JUN BDL JUN BDL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BDL APR BDL	.050 <t< td=""><td>•</td><td>.300 <t< td=""><td>•</td><td>.050 <</td></t<></td></t<>	•	.300 <t< td=""><td>•</td><td>.050 <</td></t<>	•	.050 <
DEC BOL ROMOFORM (UG/L) JAN BOL FEB BOL MAR BOL APR BOL JUN BOL JUN BOL JUL BOL AUG BOL SEP BOL OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL APR BOL	BOL	•	IBT	•	BDL
JAN BOL FEB BOL MAR BOL JUN BOL JUN BOL JUL BOL AUG BOL SEP BOL OCT BOL NOV BOL DEC BOL TOTL TRIHALOMETHANES JAN BOL FEB BOL MAR BOL ADR	BDL	•	BDL	•	BDL
JAN BOL FEB BOL MAR BDL APR BOL JUN BOL JUN BOL AUG BOL OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL ADL ADL BOL BOL BOL BOL BOL BOL BOL BOL BOL BO	BDL	•	IU	•	Iυ
FEB BDL MAR BDL APR BOL JUN BOL JUN BOL JUL BDL AUG BOL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BOL APR BOL)		DET'N LIMIT = .200	GUIDELINE = 3	350 (A1+)
MAR BDL APR BOL MAY BOL JUN BOL JUL BDL AUG BDL SEP BDL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BOL MAR BOL APR BOL	.400 <t< td=""><td></td><td>.400 <t< td=""><td>•</td><td>.400</td></t<></td></t<>		.400 <t< td=""><td>•</td><td>.400</td></t<>	•	.400
APR BDL MAY BOL JUN BOL JUL BOL AUG BOL SEP BOL OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL MAR BOL APR BOL	.400 <t< td=""><td>•</td><td>.400 <7</td><td>•</td><td>.400 <</td></t<>	•	.400 <7	•	.400 <
MAY BOL JUN BOL JUL BOL AUG BOL SEP BOL OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL MAR BOL APR BOL	.600 <t< td=""><td>•</td><td>.600 <t< td=""><td></td><td>.600</td></t<></td></t<>	•	.600 <t< td=""><td></td><td>.600</td></t<>		.600
JUN BDL JUL BOL AUG BOL SEP BOL OCT BOL NOV BDL DEC BOL OTL TRIHALOMETHANES JAN BDL FEB BOL MAR BOL APR BOL	BDL		BDL	•	.400
JUL BDL AUG BDL SEP BOL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BDL MAR BDL APR BDL	.800 <t< td=""><td></td><td>.400 <t< td=""><td></td><td>.400</td></t<></td></t<>		.400 <t< td=""><td></td><td>.400</td></t<>		.400
JUL BDL AUG BDL SEP BOL OCT BDL NOV BDL DEC BDL OTL TRIHALOMETHANES JAN BDL FEB BDL MAR BDL APR BDL	.600 <t< td=""><td>•</td><td>.600 <t< td=""><td>•</td><td></td></t<></td></t<>	•	.600 <t< td=""><td>•</td><td></td></t<>	•	
AUG BOL SEP BOL OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL HAR BOL APR BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td>•</td><td>.600 -</td></t<></td></t<>		.600 <t< td=""><td>•</td><td>.600 -</td></t<>	•	.600 -
SEP BOL OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL MAR BOL APR BOL	BDL		.600 <t< td=""><td></td><td>.800 -</td></t<>		.800 -
OCT BOL NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL MAR BOL APR BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.600 -</td></t<></td></t<>		.600 <t< td=""><td></td><td>.600 -</td></t<>		.600 -
NOV BOL DEC BOL OTL TRIHALOMETHANES JAN BOL FEB BOL HAR BOL APR BOL	.600 <t< td=""><td></td><td>187</td><td></td><td>.800</td></t<>		187		.800
DEC BOL OTL TRIHALOMETHANES JAN BDL FEB BDL MAR BOL APR BOL	.600 <t< td=""><td></td><td>.600 <t< td=""><td></td><td>.800</td></t<></td></t<>		.600 <t< td=""><td></td><td>.800</td></t<>		.800
JAN BOL FEB BOL MAR BOL APR BOL	.400 <t< td=""><td>•</td><td>10</td><td>•</td><td>IU</td></t<>	•	10	•	IU
FEB BDL MAR BDL APR BDL	(UG/L)		DET'N LIMIT = .500	GUIDELINE = 3	350 (A1)
FEB BDL MAR BDL APR BDL	29.450	•	27.600	•	30.250
MAR BDL APR BDL	26.750	•	26.800	•	29.400
APR BDL	30.400		36.400	•	39.550
	32.850		25.900	•	33.100
TOTAL DOL	37.750		39.800	•	36.800
JUN BDL	32.850		39.900	•	
JUL BDL	37.400	•	34.700	•	37.300
AUG BDL	80.000	-	40.950		41.400
SEP BOL	41.200	•	35.850	-	38.600
OCT BOL	40.250	•	1BT	•	39.600
NOV BOL		•	31.750	•	34.550
DEC BDL	30.400	•	10	•	IU

TABLE 5

DRINKING WATER SURVEILLANCE PROGRAM ST THOMAS (ELGIN WSS) 1989

WATER TREATMENT PLANT

DISTRIBUTION SYSTEM

RAW	TREATED	SITE 1	SITE 2		
		STANDING	FREE FLOW	STANDING	FREE FLOW
 	• • • • • • • • • • • • • • • • • • • •				

TRACE LEVELS OF TOLUENE ARE LABORATORY ARTIFACTS DERIVED FROM THE ANALYTICAL METHODOLOGY.

TRACE LEVELS OF STYRENE ARE CONSIDERED TO BE LABORATORY ARTIFACTS RESULTING FROM THE LABORATORY SHIPPING CONTAINERS.

Table 6

	Г	ETECTIO	N .
SCAN/PARAMETER	UNIT	LIMIT	GUIDELINE
BACTERIOLOGICAL			
FECAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	0 (A1)
STANDARD PLATE COUNT MEMBRANE	CT/ML	0	500/ML(A1
FILTRATION			
TOTAL COLIFORM MEMBRANE FILTRATION	CT/100ML	0	5/100mL(A1)
TOTAL COLIFORM BACKGROUND MF	CT/100ML	0	N/A
CHLOROAROMATICS			
HEXACHLOROBUTADIENE	NG/L	1.000	450. (D4)
1,2,3-TRICHLOROBENZENE	NG/L		10000 (1)
1,2,3,4-TETRACHLOROBENZENE	NG/L		10000 (I)
1,2,3,5-TETRACHLOROBENZENE	NG/L	1.000	10000 (I)
1,2,4-TRICHLOROBENZENE	NG/L	5.000	10000 (I)
1,2,4,5-TETRACHLOROBENZENE	NG/L	1.000	38000 (D4)
1,3,5-TRICHLOROBENZENE	NG/L	5.000	10000 (D4)
HEXACHLOROBENZENE	NG/L	1.0	10. (C1)
HEXACHLOROETHANE	NG/L	1.000	1900. (D4)
OCTACHLOROSTYRENE	NG/L	1.000	N/A
PENTACHLOROBENZENE	NG/L	1.000	74000 (D4)
2,3,6-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,4,5-TRICHLOROTOLUENE	NG/L	5.000	N/A
2,6,A-TRICHLOROTOLUENE	NG/L	5.000	N/A
CHLOROPHENOLS			
2,3,4-TRICHLOROPHENOL	NG/L	50.	N/A
2,3,4,5-TETRACHLOROPHENOL	NG/L	50.	N/A
2,3,5,6-TETRACHLOROPHENOL	NG/L	50.	N/A
2,4,5-TRICHLOROPHENOL	NG/L	50. 2	600000 (D4)
2,4,6-TRICHLOROPHENOL	NG/L	50.	2000. (B4)
PENTACHLOROPHENOL	NG/L	50.	30000. (B4)
CHEMISTRY (FLD)			
FIELD COMBINED CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD FREE CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD TOTAL CHLORINE RESIDUAL	MG/L	N/A	N/A
FIELD PH	DMSNLESS	N/A	6.5-8.5(A4)
FIELD TEMPERATURE	°c	N/A	<15 °C(A1)
FIELD TURBIDITY	FTU	N/A	1.0 (A1)
CHEMISTRY (LAB)			
ALKALINITY	VC /T	000	20 500/5
CALCIUM	MG/L	.200	, ,
CYANIDE	MG/L	.100	• •
CHLORIDE	MG/L MG/L	.001	, ,
COLOUR	TCU	.5	250. (A3) 5.0 (A3)
CONDUCTIVITY	UMHO/CM	1.	400. (F2)
FLUORIDE	MG/L	.01	2.4 (A1)
HARDNESS	MG/L	.50	
MAGNESIUM	MG/L	.05	30. (F2)
		.03	55. (12)

DF	TE	CT	4OT	Į.

	DEC	TECTION		
SCAN/PARAMETER	UNIT	LIMIT	GUIDEL	INE
NITRITE	MG/L	.001	1.0	(A1)
TOTAL NITRATES	MG/L	.02	10.	(A1)
NITROGEN TOTAL KJELDAHL	MG/L	.02		
PH	DMSNLESS	A\N	6.5-8.5	(A4)
PHOSPHORUS FIL REACT	MG/L	.000	5 N/A	
	MG/L	.002	.40	(F2)
	MG/L	.200	500.	(A3)
	MG/L	1.	500.	(A3)
	FTU	.02	1.0	(A1)
METALS				
	UG/L	.050		(A4)
	UG/L	.050		(F3)
	UG/L	.050		(A1)
BARIUM	UG/L		1000.	(A1)
BORON	UG/L	.200	5000.	(A1)
BERYLLIUM	UG/L	.010		(H)
CADMIUM	UG/L	.050		(A1)
COBALT	UG/L	.020	1000.	(H)
CHROMIUM	UG/L	.100	50.	(A1)
COPPER	UG/L	.100	1000.	(A3)
IRON	UG/L	5.0	300.	(A3)
MERCURY	UG/L	.01	1.0	(A1)
MANGANESE	UG/L	.050	50.	(A3)
MOLYBDENUM	UG/L	.020	500.	(H)
NICKEL	UG/L	.100	50.	(F3)
LEAD	UG/L	.020	50.	(A1)
SELENIUM	UG/L	.200	10.	(A1)
SILVER	UG/L	.020	50.	(A1)
STRONTIUM	UG/L	.100	2000.	(H)
THALLIUM	UG/L	.010	13.	(D4)
TITANIUM	UG/L	.100	N/A	
URANIUM	UG/L	.020	20.	(A2)
VANADIUM	UG/L	.020	100.	(H)
ZINC	UG/L	.020	5000.	(A3)
PHENOLICS				
PHENOLICS (UNFILTERED REACTIVE)	UG/L	. 2	2.0	(A3)
PESTICIDES & PCB				
			=00	(3.3.)
ALDRIN	NG/L	1.0	700.	(A1)
AMETRINE	NG/L		300000.	(D3)
ATRAZINE	NG/L	50.	60000.	(B3)
ALPHA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0	700.	(G)
BETA HEXACHLOROCYCLOHEXANE (BHC)	NG/L	1.0		(G)
GAMMA HEXACHLOROCYCLOHEXANE(LINDANE)		1.0		
ALPHA CHLORDANE	NG/L	2.0		(A1)
GAMMA CHLORDANE	NG/L	2.0		(A1)
BLADEX	NG/L	100.	10000.	(B3)
DIELDRIN	NG/L	2.0	700.	(A1)
METHOXYCHLOR	NG/L		900000.	(B1)
ENDOSULFAN 1 (THIODAN I)	NG/L		74000.	(D4)
ENDOSULFAN 2 (THIODAN II)	NG/L	4.0	74000.	(D4)
ENDRIN	NG/L	4.0	200.	(A1)
ENDOSULFAN SULPHATE (THIODAN SULPHATE)NG/L	4.0	N/A	

	Γ	ETECTION		
SCAN/PARAMETER	TINU	LIMIT	C GUIDE	LINE
	/=		2000	
HEPTACHLOR EPOXIDE	NG/L NG/L	1.0	3000. 3000.	(A1) (A1)
HEPTACHLOR METOLACHLOR	NG/L NG/L	500.	50000.	(B3)
MIREX	NG/L NG/L	5.0	N/A	(55)
OXYCHLORDANE	NG/L NG/L	2.0	N/A	
O,P-DDT	NG/L NG/L	5.0	30000.	(A1)
PCB	NG/L	20.0	3000.	(A2)
O,P-DDD	NG/L	5.0	N/A	(/
PPDDE	NG/L	1.0	-	(A1)
PPDDT	NG/L	5.0	30000.	(A1)
ATRATONE	NG/L	50.	N/A	(,
ALACHLOR	NG/L	500.	35000.	(D2)
PROMETONE	NG/L	50.	52500.	(D3)
PROPAZINE	NG/L	50.	16000.	(D2)
PROMETRYNE	NG/L	50.	1000.	(B3)
SENCOR (METRIBUZIN)	NG/L	100.	80000.	(B2)
SIMAZINE	NG/L	50.	10000.	(B3)
POLYAROMATIC HYDROCARBONS				
PHENANTHRENE	NG/L	10.0	N/A	
ANTHRACENE	NG/L	1.0	N/A	
FLUORANTHENE	NG/L	20.0	42000.	(D4)
PYRENE	NG/L	20.0	N/A	
BENZO (A) ANTHRACENE	NG/L	20.0	N/A	
CHRYSENE	NG/L	50.0	N/A	
DIMETHYL BENZO(A)ANTHRACENE	NG/L	5.0	N/A	
BENZO(E) PYRENE	NG/L	50.0	N/A	
BENZO(B) FLUORANTHENE	NG/L	10.0	N/A	
PERYLENE	NG/L	10.0	N/A	
BENZO(K) FLUORANTHENE	NG/L	1.0	N/A	
BENZO(A)PYRENE	NG/L	5.0	10.	(B1)
BENZO(G, H, I) PERYLENE	NG/L	20.0	N/A	
DIBENZO(A, H) ANTHRACENE	NG/L	10.0	N/A	
INDENO(1,2,3-C,D)PYRENE	NG/L	20.0	N/A	
BENZO(B)CHRYSENE	NG/L	2.0	-	
CORONENE	NG/L	10.0	N/A	
SPECIFIC PESTICIDES				
TOXAPHENE	NG/L	N/A	5000.	(A1)
2,4,5-TRICHLOROBUTYRIC ACID	NG/L	50.	200000.	(B4)
(2,4,5-T)				
2,4-DICHLOROBUTYRIC ACID (2,4-D)	NG/L	100.	100000.	
2,4-DICHLORORPHENOXYBUTYRIC ACID	NG/L	200.	18000.	(B3)
2,4-D PROPIONIC ACID	NG/L	100.	N/A	
DICAMBA	NG/L	100.	120000.	
PICLORAM	NG/L	100.	190000.	
SILVEX (2,4,5-TP)	NG/L	50.	10000.	
DIAZINON	NG/L	20.		(B1)
DICHLOROVOS	NG/L	20.	N/A	
DURSBAN	NG/L	20.	N/A	
ETHION CUTTURE OF THE PROPERTY	NG/L	20.		
GUTHION (AZINPHOSMETHYL)	NG/L	N/A		
MALATHION	NG/L	20.	190000.	(B1)
MEVINPHOS	NG/L	20.	N/A	
METHYL PARATHION	NG/L	50.		(A1)
METHYLTRITHION	NG/L	20.	N/A	

	DE	ETECTION		
SCAN/PARAMETER	<u>UNIT</u>	LIMIT	GUIDELINE	
PARATHION	NG/L	20.	50000. (B1)	
PHORATE (THIMET)	NG/L	20.	2000. (B3)	
RELDAN	NG/L	20.	N/A	
RONNEL	NG/L	20.	N/A	
AMINOCARB	NG/L	N/A	N/A	
BENONYL	NG/L	N/A	N/A	
BUX (METALKAMATE)	NG/L	2000.	N/A	
CARBOFURAN	NG/L	2000.	90000. (B1)	
CICP (CHLORPROPHAM)	NG/L	2000.	350000. (G)	
DIALLATE	NG/L	2000.	30000. (H)	
EPTAM	NG/L	2000.	N/A	
IPC	NG/L	2000.	N/A	
PROPOXUR (BAYGON)	NG/L	2000.	90000. (G)	
SEVIN (CARBARYL)	NG/L	200.	90000. (B1)	
SUTAN (BUTYLATE)	NG/L	2000.	245000. (D3)	
VOLATILES				
BENZENE	UG/L	.05	50 5.0 (B1)	
TOLUENE	UG/L		50 24.0 (B4)	
ETHYLBENZENE	UG/L		50 2.4 (B4)	
PARA-XYLENE	UG/L		00 300. (B4)	
META-XYLENE	UG/L		00 300. (B4)	
ORTHO-XYLENE	UG/L		50 300. (B4)	
1,1-DICHLOROETHYLENE	UG/L		00 7.0 (D1)	
ETHLYENE DIBROMIDE	UG/L	.09	•	
METHYLENE CHLORIDE	UG/L		00 50. (B1)	
TRANS-1,2-DICHLOROETHYLENE	UG/L		00 70. (D5)	
1,1-DICHLOROETHANE	UG/L		A/N 0C	
CHLOROFORM	UG/L		00 350. (A1+)	1
1,1,1-TRICHLOROETHANE	UG/L	.0:	20 200. (D1)	
1,2-DICHLOROETHANE	UG/L	.0		
CARBON TETRACHLORIDE	UG/L	. 2	00 5.0 (B1)	
1,2-DICHLOROPROPANE	UG/L	.0	· ·	
TRICHLOROETHYLENE	UG/L	. 10	00 50. (B1)	
DICHLOROBROMOMETHANE	UG/L	.0	50 350. (A1+)	į
1,1,2-TRICHLOROETHANE	UG/L	.0	.60(D4)	
CHLORODIBROMOMETHANE	UG/L	. 1	00 350. (A1+))
TETRACHLOROETHYLENE	UG/L	.0	50 10.0 (C2)	
BROMOFORM	UG/L	. 2	00 350. (A1+))
1,1,2,2-TETRACHLOROETHANE	UG/L	.0	50 0.17(D4)	
CHLOROBENZENE	UG/L		00 60. (D5)	
1,4-DICHLOROBENZENE	UG/L	. 1	00 1.0 (B4)	
1,3-DICHLOROBENZENE	UG/L	. 1	00 130. (G)	
4 4	110 /1	^	EO 3 O (RA)	

UG/L

UG/L

UG/L

UG/L

1,2-DICHLOROBENZENE

STYRENE

TRIFLUOROCHLOROTOLUENE TOTAL TRIHALOMETHANES .050

.100

.05

.500

3.0 (B4)

(A1)

(D5)

N/A

350.

140.



